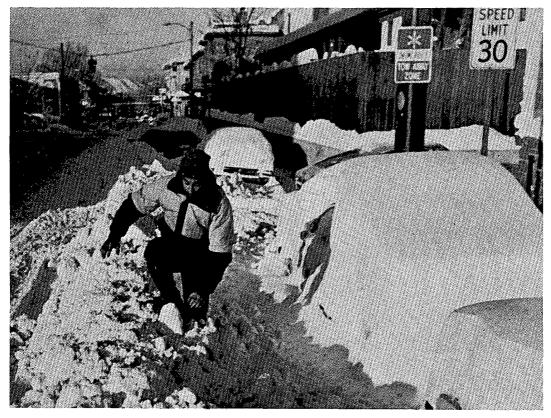
STORM DATA





"I CERTIFY THAT THIS IS AN OFFICIAL PUBLICATION OF THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION AND IS COMPILED FROM INFORMATION RECEIVED AT THE NATIONAL CLIMATIC DATA CENTER, ASHEVILLE, N.C. 28801"

I Ray Hoxet ACTING DIRECTOR

NATIONAL CLIMATIC DATA CENTER

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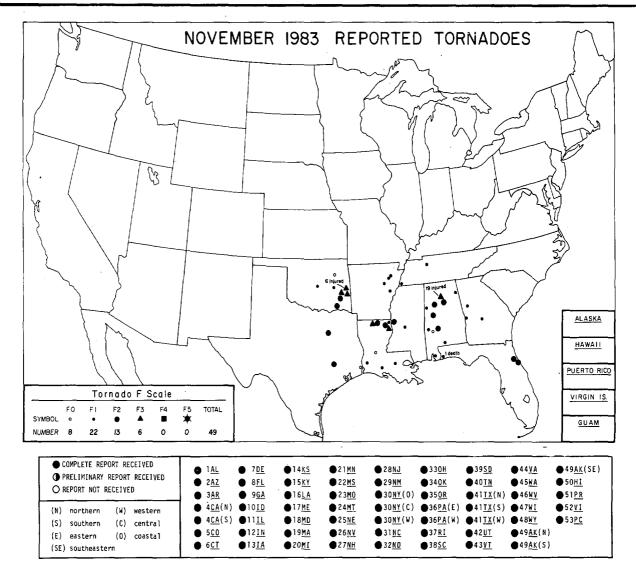
Cover: Some of the many vehicles that obstructed snow routes when Denver, CO was blanketed by up to 22 inches of snow (see SNOWSTORM in the NORTHERN PLAINS, page 5).

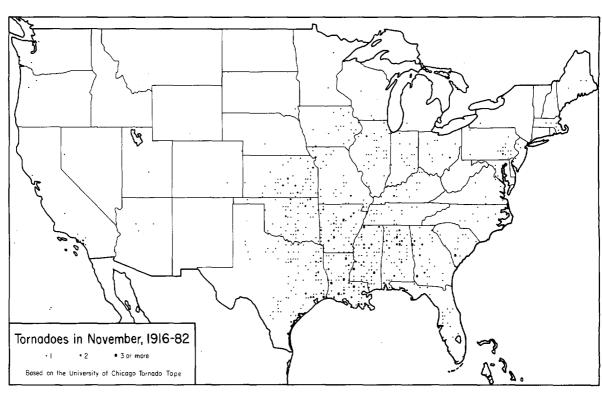
---Photo by Lyn Alweis, The Denver Post.

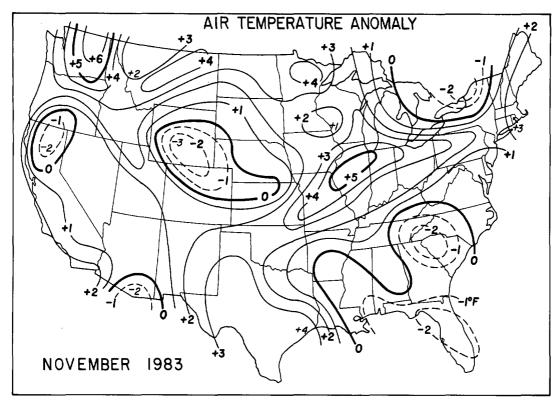
NOTE: The section on Outstanding Storms of the Month is prepared by Professor T. Theodore Fujita, editor, and Duane J. Stiegler, associate editor, University of Chicago. The narrative descriptions of Storms by State and Summaries of Hurricanes and Tropical Storms are prepared by the National Weather Service. The National Climatic Data Center compiles the statistics on deaths, injuries, and damage. This publication contains our best information on Storms, but, due to the difficulties inherent in collection of this type of data, it is not all-inclusive. Late reports and corrections will be carried quarterly.

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OUTSTANDING STORMS OF THE MONTH

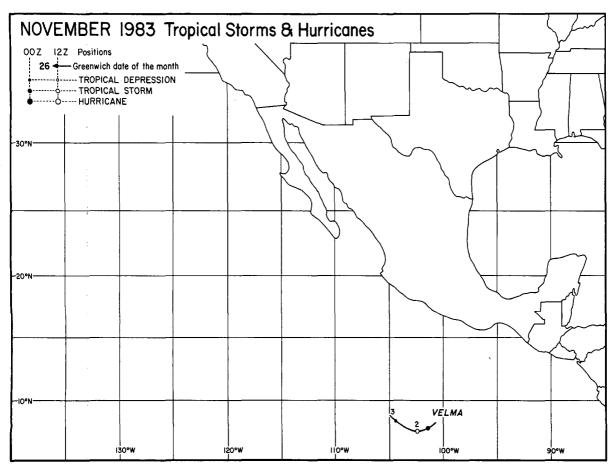






---Data base from NOAA/USDA Joint Agricultural Weather Facility.

TROPICAL STORMS AND HURRICANES

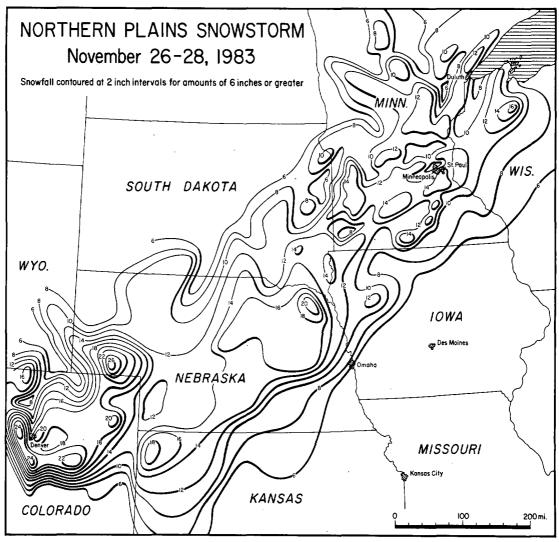


---Best track data from NWSFO, San Francisco, CA.

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1. SNOWSTORM in the NORTHERN PLAINS on November 26-28, 1983

From November 26th to the 28th a massive snowstorm hit the northern plains states with heavy snow, ice, and strong winds along a band from Denver, CO to Duluth, MN. Conditions resulted in the closure of numerous Interstates and Denver Stapleton Int. Airport, leaving many Thanksgiving weekend travelers stranded. ---Snowfall data supplied by NWSFOs at Des Moines, IA; Topeka, KS; Omaha, NE; Sioux Falls, SD; Milwaukee, WI; and Cheyenne, WY; as well as the Colorado Climate Center and the Minnesota State Climatology Office. Mapping by the University of Chicago.



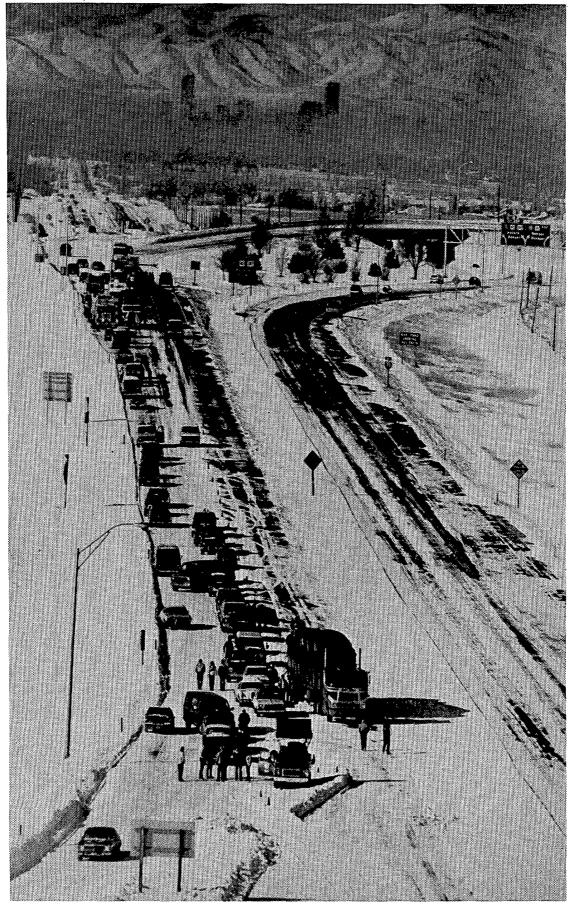


A Denver man digs out his car for a second time after street plows had nearly reburied it. ---Photo by Lyn Alweis, The Denver Post.

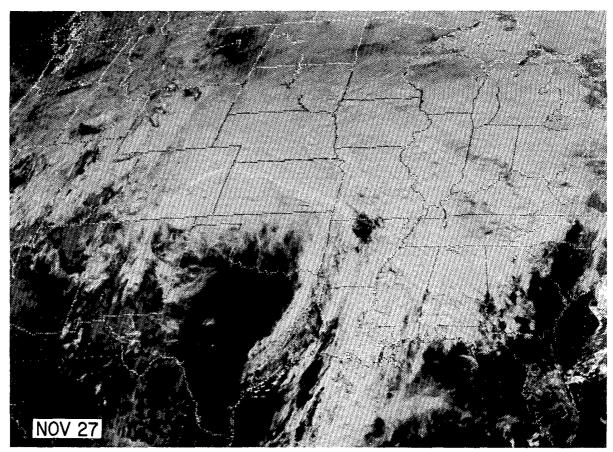


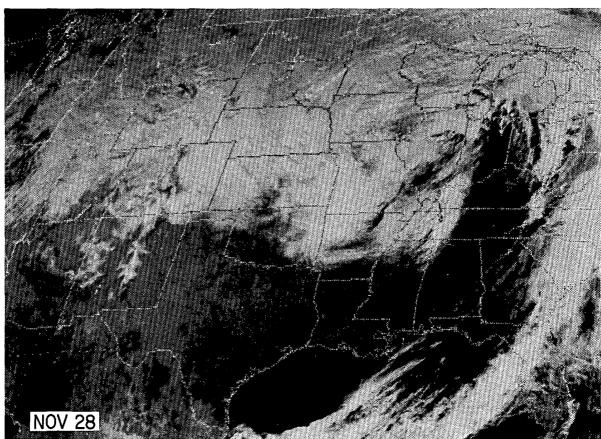
A Denver motorist gets some help to free his car from deepening snow during the storm. ---Photo by John Prieto, The Denver Post.

- 5



A traffic backup just east of Denver on Interstate 70, after blowing and drifting snow had closed the road between Denver and Kansas. ---Photo by Anthony Suau, The Denver Post.

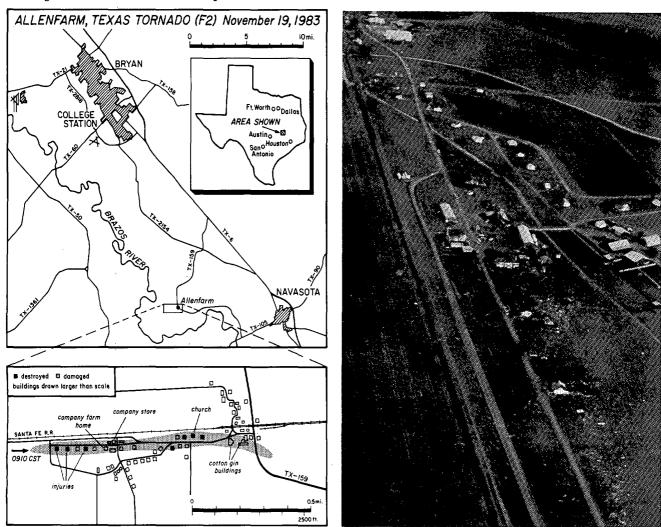




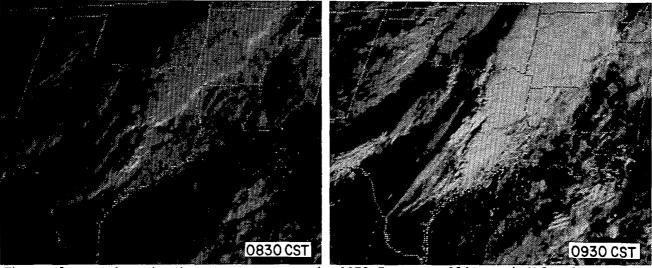
Two GOES East satellite, visible images show the snow-producing cyclone at 1130 CST (1730 GMT) on November 27th and 28th. ---Photos from NESDIS.

2. TORNADO at ALLENFARM, TEXAS on November 19, 1983

At 0910 CST on November 19th, a short-lived tornado touched down in Allenfarm, Texas. The tornado was unusual in that it travelled down the main road of an old cotton plantation, destroying many of the only buildings for miles around. It also surprised many residents who mistakingly believed the approaching sound to be a freight train on the nearby railroad.



LEFT: Mapped damage path. RIGHT: Aerial view of Allenfarm (looking east). The tornado moved from the lower right to upper left corner of the photo.



The early morning thunderstorms as seen in GOES East satellite, visible photos at 0830 CST and 0930 CST on November 19th. ---Photos from NESDIS.



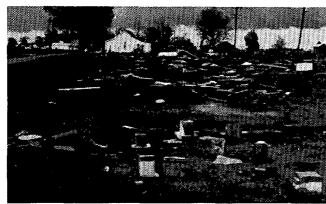
Three sites of destroyed homes where injuries occurred at the beginning of the damage path (looking northwest).



A destroyed church viewed looking south.



A damaged cotton gin facility near the end of the damage path (looking northwest).



Blocks on which sat home #1 in the top photo (looking east).



Debris from home site #3 (looking southeast).







Various damage to homes about midway along the tornado path.

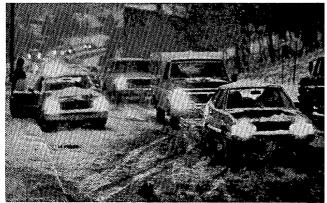
--- Map and all photos by Troy M. Kimmel, KBTX-TV, Bryan, Texas.

3. SNOWSTORM in the UPPER MIDWEST on November 23-24, 1983

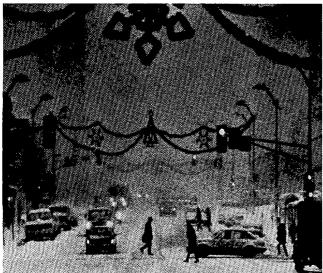
On November 23rd and 24th the first major cyclone of the winter season dumped a heavy, wet snow through the Upper Midwest, with a narrow band extending as far south as Wichita, KS. Hardest hit was Duluth, MN which received 20.7 inches of snow, 16.6 inches of which fell in 24 hours. ---Snowfall data supplied by the Minnesota State Climatology Office and NWSFOs at Des Moines, IA and Milwaukee, WI.



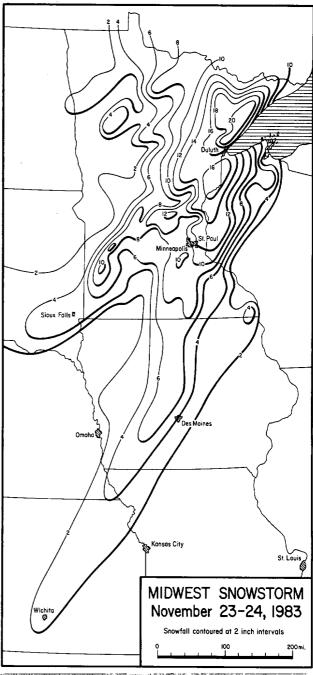
Citizens of Duluth cower in blowing snow while waiting to board a bus.



Traffic creeps by a stalled auto as slick conditions made for hazardous driving.



This Duluth street demonstrates the reduced visibility caused by the blowing snow. ---Photo by Bob King.





Even with help, this car got little traction in the wet snow, and just slid sideways. ---Photo by John Rott.

---All photos from the Duluth News-Tribune & Herald.

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Union County	23 about 0400CST A mobile home thunderstorm g					у	Wind		Olancha, Inyo County	duri							the 0	High Wind lancha area mage was not
Jefferson County	23 0434CST A thunderstorm destroying one businesses alo	mob11	e home	and injur	ing one	occup	Wind eant, Nine co major damage.		5 COLORADO									
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Jackson County	23 about 0530CST One mobile hom sheds were dam Overcup Commun	aged by	y thund	erstorm g	usts at	tool	Wind		Mountains, Northeast Foothills	20-	orado Spri 21 ther storm	ings. 1 burie :er Par	d the r k; two	0 mounta feet	0 ains. fell	0 21 in in the	0 nches c	Snow of snow fell in 48 western town of Cameron Pass, in
Lee County	23 0545CST A small tornad west of the in in Marianna, a to one home an 2 automobiles, also damaged,	o touch tersect s it mo d minor	tion of oved no r damag	Highways rtheast. e to a se	1 and 7 Extensicond one	th- '9, ve da	e business,		Statewide	the nor a ha at 1	northern theastern alf hours. Greeley.	mounta foothi Gold	ins. : 11s. en rece	Some to a some t	heavy hes fe 8 inc ?	snow a 11 at hes, w	also oc Empire with 5	curred in the in just one and at Boulder and 4
Crittenden County	23 about 0645CST Strong winds,	Three	utilit	y poles w	ere knoc	used ked d	Wind minor damage in lown, as well as			the consprod	25th, coving tinued to duced how with the send transfers staplating of the theast, Earth and the send to the send	vered to buffet ing wisportate other leton Ame 28th ist, and	he ent the mo nds and ion in areas irport Inte d Soutl	ire stountaind heave easte of the close erstath hoff	tate o ins an vy sno ern Co he sta ed, op te hig Denver	n the d east w that lorade te as ening hways, and	26th, t on th t paral o, and well. 24 hou were c	ns of Colorado on then stalled and the 27th. The storm yzed Thanksgiving severely curtailed On the 27th, irs later on the losed to the ther roads on the
4 CALIFORNIA	0500-									In I Chr	ed the sno Denver, th Sstmas Eve Bort; in 3	w in t is sto blizz 7 hour	o drifi rm was ard. 2 s; in 1	ts as not a 21.5 i last y	high as bad inches /ears	as 10 as la of sr storm,	feet. ist yea now fel , 23.8	ng over 50 mph rs infamous l at Stapleton inches buried the
	There were win the coast with blown down. Pocausing outage: Francisco Bay: reported that wind. A tree: A boat capsized wind.	gusts ower 1 s to 25 area al windows fell on	to 70 to 10 to 10,000 to 1	mph. Tree ere blown customers Crescent (oroken bec se in Mari	down, in the Sity sause of	San	Wind			duringh by 3 to 6 school lost To t than hour took	ng this y range during to 50 m ause many ol footba rado were the east a last years, and the refuge f	ears sing the physical store and nor the town th	torm as e snowf ds. St s and t es were to bad theast theast s popul	s wind fall; till, busine post ly hur of Depon, vilation N. Wi	d spee last this esses poned y; on enver, sibil doub th al	ds wer years years to clo . How ly a f this ity wa led as l road	re most storm storm se, an vever, few hea years s zero aroun ls clos	problem in Denver ly in the 15 to 25 was accompanied was severe enough d several high farmers in eastern d of cattle were storm was worse for over 24 d 2000 travelers ed, towns like e cut off from
	0400- 23 1800PST Moderate to hes many locations. 6 hours. Many 3'. Strong, gu 1/8 of a mile i	Taho areas sty wi	e Valle receive nds bro	y receive d totals ught visi	12 hour d 15" in in exces	ı s of	Snow			snow nort alth only 15 i in t Sout Only but Temp Colo was Stap snow	outside with the control of the cont	orld on nts fri ost spi cities inches Commer est sec orado a fell a es cloc at Dri o 5 inc during the sno port me d the p	in the 2 mm the ots in of For of For the City of the city of the city of the city of the step was the step of the step was the step of the city of the	storm these t Col the De to 2 of the west or and sinds g but	ind in were areas lins, enver a series serie	to the heavist rece Lovel area, nes ne area alleys lancts spots softy. Wattheast les area with a lance	est in ived 10 and, and and, and snow do ar Chara. received just mph on on had in the er conjern Cohe ligh the 1	the mountains and 8 to 25 inches, and Longmont had epths varied from trield Reservoir wed less snow. 1 inch at Pueblo, the 26th. About only a 2 inch e San Luis Valley. teens in eastern tent of the snow

										N	OVEMBER 198
	NO. OF ESTIMATED DAMAGE			CAL	РАТН	Ŧ	NO. OI PERSOI		ESTIMAT DAMA		
PLACE	TTME - LOCAL STANDARD STANDARD (ANLES) WIDTH OF PATH (ANLES) CROPS	PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF (MILES)	WIDTH OF PATH (YARDS)	KILLED	INJUNEO	PROPERTY	CROPS	CHARACTER OF STORM
COLORA	DO	FLORIDA	\								
	Five deaths in Colorado were directly attributed to the storm. Two teenagers were injured when their car rolled over in the snow north of Denver on the 26th; stranded in the open, they froze to death. Other victims of car failures included a man in Elbert	Hudson, Pasco County	20 1115		-	- - damae	0 ()	3	-	Thunderstorm wind
	County and a man in Adams County 17 miles north of Byers; both froze after their vehicles failed. The fifth fatality was a man in Limon. He walked out of a truck stop, became disoriented, and froze to death in a snowbank only a few yards from safety.	Palatka, Putnam County	20 1315	EST	-	-	0 ()	4	-	Thunderstorm wind
	Temperatures remained cold for several days after the storm, and it took a few days for things to return to normal. Most schools in Northeastern Colorado, including those in Denver, were closed on Monday the 28th, and some schools in rural areas did not	Ormand Beach, Volusia County	1	26EST	3	50	0 () 1. 's:	6 everal	-	Tornado(F2)
	reopen until Wednesday or Thursday of that week. The cost of snow removal in Denver was estimated at 1.5 million dollars. While substantial, this is far below the 7 million		destroy	red, fo	rty ca	rs were	damage	d by	fallir	ng li	ght poles, was reported.
	dollars spent to clean up after last years Christmas Eve blizzard. The heavy amounts of snow produced by this storm put the finishing touches on an extremely snowy November in Colorado. Berthoud Pass received 90 inches during the month, and 55 inches fell in the city of Aspen-at the base of the ski areas. Both	Rural, Flagler County		330EST ms des		50 , recre	0 i	o rea p	5 pavilli	- lon d	Tornado(F2)
	figures were records for November. 103 inches fell at the Mary Jane ski area, and even at lower elevations Boulder totaled 43	Arrowhead, Citrus County	20 14	OOEST	-	-	0 ()	4	-	Thunderstorm wind
N. Mtns, Northeast	inches. 29		A mobil	e home ere do	was do wned.	estroye	đ, a cai	rport	t was d	lestro	oyed.
	Mountains, with 10 inches at Steamboat Springs. 2 to 6 inches dusted many spots in the northeastern foothills and plains, adding to the problems caused by the big storm a few days earlier.	Cocos Beach, Brevard County	20 1520 A mobil		- -	-	0 ()	4	-	Thunderstorm wind
6 CONNECTIC	UT	8 miles east of Punta Gorda, Charlotte County	20 15	30EST	-	-	0 (4	-	Thunderstorm wind
Southern Portion & Coastal Areas	10- Afternoon- 0 0 0 Gusty Winds and 11 Morning Gusty winds accompanying a coastal storm knocked down tree limbs which resulted in power losses. Local flooding was caused by	North Fort Myers, Lee County	20 16	30EST	-	-	damaged.)	4	-	Thunderstorm
Statewide	heavy rains. 15 Afternoon & 0 0 0 Gusty Winds and Evening Gusty winds downed tree limbs, knocking down wires and causing some power losses. Local flooding from heavy rains occurred in	Newberry, Alachua County	24 AM	ı	-	-	s and ca)	4	- -	Thunderstorm wind
Northwest Corner	many parts of the state. 25 All day 0 0 0 Wet snow & wind	Cross City, Dixie County	30 20	00EST	-	-	0 ()	3	-	Thunderstorm wind
	Several thousand customers lost electric service as several inches of sticky snow brought down trees and tree limbs across electric lines. As much as 5 to 6 inches of snow fell in Salisbury.		A house	was d	amaged	by win	d.				
Central and Coastal Area	Heavy Rain	9 GEORGIA									
	Scattered power losses and some local flooding resulted from the storm.	Chatham County		30EST			0	0	4	0	Wind
7 DELAWARE	•		a door	was bl	Lown of	f one i	damaged hangar. the carp	In	Savann	ah th	Savannah Airport e winds damaged
Kent County	15 1830EST 0 0 3 0 Wind	Coweta County	20 13		5	100	-	0	4	0	Tornado (F1)
	Late season thunderstorms associated with a strong cold front brought winds that caused power line damage in the Dennys Crossroads community just north of Dover.		from 2	o destr houses	royed a	hay ba	arn, dam	aged rche	l two c	ars,	tore some roofing
		Payette County	20 14 A funn		ıd was	sighted	0 1 near P	0 each	0 itree C	0 1ty.	Funnel Cloud
8 FLORIDA		Muscogee County	20 14		1	100		2	5	0	Tornado (F1)
Sandestin Walton County	15 0920EST 0 6 3 - Thunderstorm wind Wind damaged a construction site and injuried 6 workers.		tornad The ro	o heavi of of c ned mod	ily dam one hom	aged a ie was o	barn, i Jestroye	njur dan	ing tw d seve	o peo ral o	s Airport. The ple in the barn. ther houses nd power lines
Pensacola, Escambia County	20 0315EST 3 50 1 0 4 - Tornado(F1) Thunderstorm wind Lightning	Forsyth County	were d	30EST	. dwc	ad h-41	0	0	0	0	Heil
	Mobile homes were damaged, utility sheds destroyed, local flooding, power lines were downed, trees were damaged, and house fires were started by lightning. One man was killed	Macon County	20 16	40EST			l as lar O nmeter f	0	0	0	Heil
15 miles reach of	when he touched an electrified fence, caused by downed power lines. 20 0445EST 0 0 4 - Thunderstorm	Pulaski County	20 17	50EST- 10EST	6	70	0	0	4	0	Tornado (F1)
15 miles north of Panama City Beach, Bay County	20 0445EST 0 0 4 - Thunderstorm wind Six homes were damaged, power lines and trees downed.		causin	g minor	damag	e to 4		and	severa		he county, buildings.
		Coffee County	24 09	41EST			0	0	0	0	Funnel Cloud

TO IDAHO NOTE REPORTS WERE R				NOVERDEN 150
IN ILLINOIS ***ONE REPORTS** ***STATE Control State of the Control State	PLACE	TIME - LOCAL STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD CROPS WINTED (WILED OO OU KILLED CROPS CR	PLACE	DATE TIME - LOCAL STANDARD ST
12 INDIANA 12 INDIANA 12 INDIANA 13 INDIANA 15 INDIANA 15 INDIANA 16 Indiana state of the state	10 JDAHO —	NONE REPORTED	14 KANSAS	
To INDIANA 12 INDIANA 13 INDIANA 14 INDIANA 15 INDIANA 15 INDIANA 15 INDIANA 15 INDIANA 15 INDIANA 16 A		·		Lightning struck and killed a 46 year old woman
Superscient, adapter County Since estimated between 51 to 6 of 0 in 19th Winds Since estimated between 51 to 6 for 10th an nour distripted one harm. A first trees were also stapped on 10th 10th 10th 10th 10th 10th 10th 10th				A thunderstorm dropped 3/4 inch hail at Arcadia.
Suppresson County Suppresson County				A thunderstorm dropped 3/4 inch hail 8 miles
siph winds estimated at 12 to 65 miter as thou musted retreat to siph winds estimated at 12 to 65 miter as thou must describe the control of	Jasper County	Winds estimated between 55 to 65 miles an hour destroyed one barn. A few trees were also snapped off.		09 0610CST 0 0 5 0 Lightning Lightning set fire to a farm home 7 miles south
International six these stores received further damage as heavy raided in lowed the wide. The high winds also caused stream of six ca	Lafayette, Tippecanoe County	High winds estimated at 55 to 65 miles an hour caused extensive structural damage to the Tippecanoe Mall. Air conditioning units		18 2345CST 0 0 2 0 Wind Strong thunderstorm winds knocked over a sign in
Buffelo. 20 Cassor		merchandise in these stores received further damage as heavy rains followed the winds. The high winds also caused structural damage to the roof of several apartment buildings and a motel. Scattered trees were uprooted and power lines downed in many places in and		19 0005CST 0 0 3 0 Wind A thunderstorm wind gust blew down a carport in .
Southwest Iows 03 1030-		20 0845EST 0 0 2 0 High Winds High winds uprooted trees and downed powerlines in and around the		Lightning Set fire to a mobile home 1 mile south and 1/2 west of Rantoul. A man suffered burns over 50 percent of his body in the fire, and a 4 year old boy had minor injuries after the man tossed him out a window. The home and its contents were
Southwest Lows 0	13 IOWA		Franklin, Osage	1400CST Funnel Heavy thunderstorms formed in a line from Atchison
### Amage are detailed below. The one death attributable to the storm was a Sioux City woman who died of hypothermia. She went out of her home into the cold and driding snow shortly before 11 P.M., Sunday night (the 27th) and was found about 15 minutes later. She died atter at a hospital. Medication taken under Doctor's orders may have contributed to her succumbing to the cold. ### Buchanan County The first of the first tower owned by Television Station KWML in Waterloo collapsed and was destroyed in the ice storm. Very thick for had accumulated on the tower, and with some gusty winds caused the fall of the tower. The cost of replacing the tower was estimated at 3.5 million dollars - the value of the insurance coverage of the lost tower. The collapse of the tower was also responsible for the downing of a 375,000 volt power transmission line. Woodbury County	Southwest, Central, and Northwest Iowa	1230CST Strong winds in thunderstorms caused power outages in Council Bluffs due to the downing of power lines. In Clarinda the second story wall of a church collapsed onto the sanctuary because of the wind. In Corning in Adams County, there was wind damage to the roofs of several hangars at the airport. 22- Evening 0 0 5 0 Snow and Ice Storm 23 Afternoon A snowstorm dumped 2-6 inches of snow over a large part of Iowa after a period of freezing rain. The area of freezing rain extended further east than the snow which followed, and the western edges of the snow had no freezing rain beforehand. The result was extremely hazardous roads and highways, with a glaze of ice on the toad under- heath the snow. Power lines were downed by the ice and many commun- ties lost power for hours - particularly in rural areas. Some localities were without electricity for 24 hours. 26- Evening 1 0 5 0 Snow and Ice Storm Romother winter storm brought trouble to travelers trying to get home after the Thanksgiving weekend. On Saturday evening (the 26th) freezing rain began in the southwest and spread north and east into fowa. All but the Southeast of Iowa had some freezing rain, which kas followed by snow in Western third of Iowa on Sunday afternoon through Monday morning. The heavy snow fell in West Central, North- vestern and North Central portions of the State, with a range of 5-16 inches falling in these areas. Most of the property damage justained in this storm was due to ice accumulating on the power lines and poles, which, with the wind, caused lines to snap and over was interrupted. A couple of the larger examples of property	Western and Northern	Golfball size hail fell in Lawrence at 1243CST and between Quence and Melvern at 125CST. Hailstones 3/4 inch in diameter dropped to the ground in Burlington at 1320CST and Ottawa at 1340CST. The storms produced damaging winds in parts of Leavenworth Count; Haif of a small convenience store near Tonganoxie was blown away about 1330CST, and several farm homes between Tonganoxie and Basehor had some damage about that time. The wind speed was measured at 70 mph at Leavenworth at 1340CST. A storage building was demolished at the VA Center, and widespread minor tree and vehicle damage resulted in Leavenworth. 22 1620- 0 0 4 0 Hail, Wind 1710CST Heavy thunderstorms moved across Labette County. The storms dropped 3/4 inch diameter hail at Edna at 1635CST and at 0swego 1700CST. Strong wind gusts caused a good deal of damage at a farmstead near Angola about 1630CST. 26- Aftn- 3 0 6 0 Blizzard and 1700CST Strong wind gusts caused a good deal of damage at a farmstead near Angola about 1630CST. 26- Aftn- 3 0 6 0 Blizzard and 128 Mrng Ice Storm Ice Storm Ice Storm Blizzard or near-blizzard conditions hit most of western Kansas from the afternoon of the 26th until about sunrise on the 28th. Strong winds (30 to 45 mph) combined with heavy snowfall to drop visibility to less than 1/4 mile for more than 24 hours generall west of a line from Smith Center to Liberal. Morst conditions were observed the afternoon and evening of the 27th. The storm dumped more than 6 inches of snow west of a line from Narysville to Liberal and more than a foot northwest of a line from Tribute to Wakeney to Norton. Goodland measured the most
Tarollind a harricade at College Annual Moncet Annual Monc	·	was a Sioux City woman who died of hypothermia. She went out of her home into the cold and driving snow. shortly before 11 P.M., Sunday night (the 27th) and was found about 15 minutes later. She died Later at a hospital. Medication taken under Doctor's orders may have contributed to her succumbing to the cold. 27 1635 CST 0 0 6 0 Ice Storm A 2,000 foot transmitting tower owned by Television Station KWWL in Waterloo collapsed and was destroyed in the ice storm. Very thick ice had accumulated on the tower, and with some gusty winds caused the fall of the tower. The cost of replacing the tower was estimated at 3.5 million dollars - the value of the insurance coverage of the lost tower. The collapse of the tower was also responsible for the downing of a 375,000 volt power transmission line. 28. Morning 0 0 5 0 Snow Storm and Wind A warehouse owned by a steel scrap company collapsed due to the		and 8 feet) and closed mearly all roads, leaving several thousand holiday travelers stranded. Interstate 70 was closed west of Wakeeney from 1:00 pm the 27th until 2:00 pm the 28th. Freezing rain also laid down a 70 mile wide coating of ice from just east of Dodge City to Marysville from the afternoon of the 26th into the morning of the 27th. More than half an inch of ice accumulated from Concordia east to around Seneca. Washington, Clay Center, Waterville, Blue Rapids, Marysville, Baileyville, Summerfield and Oketo were a few of the towns hit especially hard Trees and power poles were broken and some spots were without electricity for nearly a week. Three deaths resulted from the storm. Two Air Force Academy Cadets succumbed to carbon monoxide poisoning after their vehicle became stuck on 1-70, 4 miles east of Goodland late the evening of the 27th. The highway was officially closed when they drove

			MOVEMBER 1300
	NO. OF ESTIMATED DAMAGE CHARACTER		NO. OF ESTIMATED! PERSONS DAMAGE CHARACTER
PLACE	TIME - LOCAL STANDARD STANDARD STANDARD STANDARD CROPS WIDTH OF PAIN WID	PLACE	MILURED AND PATH OF PATH OF STAWNDRD OF ST
15 KENTUCKY		LOUISIA	NA
Harrison County	20 0530EST 0 0 2 0 Strong Winds Gusty winds blew trees down and caused power outages in several locations throughout Harrison County. A Plexigass shelter over the Cynthiana	Natchitoches Parish	19 1530CST 4 SVR TSTM High winds accompanying a severe thunderstorm caused damage in the town of Ashland. Numerous trees were blown down, two of which fell on houses.
	High School press box was blown from its stand and intertwined in the Kentucky utility cables. As a result, 40 Hilltop customers were without electricity for 3 hours.	Jackson Parish	19 1540CST 3 SVR TSTM A severe thunderstorm downed numerous trees southeast of Jonesboro in Jackson Parish.
Scott County	20 ERLY 0 0 2 0 Strong Winds MRNG	Caldwell Parish	19 1545CST 3 SVR TSTM A severe thunderstorm downed numerous trees and power lines, some blocking roads to the southwest of Columbia.
Madison County	High winds peeled a tin roof off of a lodge building in Oxford. 20 ERLY 0 0 1 0 High Winds MRNG	Rapides Parish	19 1615CST short 50 3 Tornado (FO) A small weak tornado was observed by the sheriff dept. to touch down about 5 miles west of Gardner. Damage was confined to farm outbuildings.
	Winds to 50 MPH downed several trees in Madison County.	Richland and West Carroll Parishes	19 1630CST 8 100 5 SVR TSTM Tornado (F2) A severe thunderstorm moved northward across Richland and West
Woodford County	20 ERLY 0 0 1 0 High Winds MRNG Several trees were leveled and large limbs were		Carroll Parishes causing property damage from west of Delhi to Warden to near Epps. The storm produced a tornado which developed two miles northwest of Delhi and distpated at Warden. At least three homes were destroyed and several more sustained significant damage.
Jessamine County	blown off others in Versailles impeding traffic and disrupting electrical service. 20 0800EST	Tensas Parish	19 AFTN 4 SVR TSTM A severe thunderstorm moved across northern portion of the parish downing numerous power lines and trees.
	A four-bent machinery barn was downed by high winds one mile east of Nicholasville on Sulphur Well Road. An aluminum entrance awning was blown away at a Nicholasville business. A wooden gate protecting gasoline pumps at Wilmore City Hall was knocked down. Limbs and branches littered yards and fields. Garbage and refuse	Madison Parish	19 1700CST .5 100 5 SVR TSTM TOTRAGO (F3) A severe thunderstorm moved across Madison Parish causing considerable wind damage in Tallulah. As the storm moved across the town of Delta, it produced a strong but short lived tornado which destroyed two large power line towers constructed of steel.
Western and Central	containers and lids were strewn about properties. Porch and lawn furniture was toppled and relocated throughout Nicholasville.	Evangeline and St. Landry Parishes	19 1820CST 5 SVR TSTM A severe thunderstorm moved through the southern portions of Evangeline and western St. Landry parishes causing widespread wind damage. Twenty power poles were snapped off, numerous windows blown out and scattered areas of roof damage.
Kentucky	MRNG Minor Flooding A combination of nearly 2 inches of morning rain and gutters clogged with autumn leaves caused minor street flooding throughout western and central Kentucky. Small creeks overflowed and low land flooding was widespread. Morkers at Parker Popcorn Company in Murray (Calloway County), put up sandbags to protect the company against high waters from the Roseberry Branch Creek. Several morning rush hour traffic	St. Martin Parish Ascension Parish	19 1825CST 5 SVR TSTM A severe thunderstorm struck the town of Cecilia causing scattered areas of wind damage. A lumber yard was destroyed, two sets of of lights at the football stadium were blown down, and numerous power lines were downed in several areas. 19 203OCST ? 7 4 Tornado (FI) A tornado of unknown size and path length struck two mobile homes injuring 7 persons.
	accidents, with no severe injuries, were accredited to rain slick highways in Louisville.	East Carroll Parish	19 EVENING 1 4 SVR TSTM Lightning A severe thunderstorm struck Lake Providence destroying a mobile home and damageing one house. One man was killed by lightning from a barge to shore on the Mississippi River.
16 LOUISIANA East Carroll Parish	14 2020CST 2 150 ⁵ Tornado (F1)	Rapides Parish	22 1215CST 5 SVR TSTM A severe thunderstorm struck the town of Boyce. Several mobile homes were severely damaged, trees fell on autos, and power lines were downed.
	A tornado struck the northwest portion of Lake Providence. Three brick homes and several mobile homes were severely damaged by the storm. Two airplanes were also destroyed. Several injuries were reported, but all were minor.	Caddo and Bossier Parishes	23 0225- 6 SVR TSTM 0330CST A line of severe thunderstorms moved through the Shreveport-
West Carroll Parish	18 1650CST 4 SVR TSTM A severe thunderstorm produced minor wind damage to roofs and windows of several homes a mile southwest of Oak Grove. Tree damage was also reported.		Bossier City area accompanied by winds measured at the NNS of 87 MPN. Widespread property damage resulted. Several planes were destroyed at both the Shreveport regional and downtown sirports. There were numerous reports of broken windows in both residential and downtown office buildings. In addition, many trees and power
East Carroll Parish	18 1730CST 4 SVR TSTM A severe thunderstorm struck north of Lake Providence causing wind damage to a few homes near the lake. In addition, numerous trees were uprooted.	g	lines were destroyed. Near Bossier City, two large brick homes suffered considerable damage with one having its roof lifted off. Numerous trees and power lines were also downed in the Bossier City area. Total damage was in excess of .5 million dollars.
Lincoln Parish	19 1320CST 1 100 3 5 Tornado (FZ) A tornado struck just south of the town of Hico. One home was destroyed and several others heavily damaged. Three persons were reported to have sustained minor injuries. Also, numerous trees and power lines were downed.	Webster and Bienville Parishes	e 23 0320CST 5 SVR TSTM A severe thunderstorm struck an area from Ringold to Sibley in these tow partishes. One mobile home was destroyed at Lake Bristineau and another mobile home and boathouse were destroyed at Plum Orchard Landing. Winds of 60-70 MPH were recorded with this severe thunderstorm. There was also considerable damage to trees and power lines.
Union Parish	19 1330CST 2 200 6 Tornado (F3) A tornado struck the town of Bernice destroying a house, three warehouses, and a service station. There were numerous other structures that received damageing ranging from major to minor. Numerous power lines and trees were also destroyed. There was wind damage between Duback and Bernice indicating very strong winds beneath the right rear portion of the storm before the tornado struck. This tornado was probably produced by the same storm which struck the town of Hico.	Lincoln, Ouachita, Franklin, Caldwell, Jackson, and Winn Parishes	23 0350- 4 SVR TSTMS 0530CST A line of severe thunderstorms moved through these parishes and was accompanied by winds of 50-60 MPH. There were scattered areas of tree and power line damage and a few mobile homes were slightly damaged. Rains of 2-3 inches also accomagnied this line of storms. 23 0320CST 4 SVR TSTMS
Winn Parish	19 1525CST 3 SVR TSTM Numerous trees were reportedly downed southeast of Winnfield to high winds accompanying a severe thunderstorm.	and Natachitoches Parishes	A line of severe thunderstorms moved through these parishes causing areas of scattered tree and power line damage. Also, mobile homes near Coushatta were also damaged.

PLACE	DATE TIME - LOCAL STANDARD	LENGTH OF PATH	WIDTH OF PATH (YARDS)	KILLED SWOSBED SON	PROPERTY DAWY		CHARACTER OF STORM	PLACE		DATE	TIME - LOCAL STANDARD	LENGTH OF PATH	(MILES)	WIDTH OF PATH (YARDS)	KILLED	INJURED SHORE		CROPS CROPS	\dashv	CHARACTER OF STORM
LOUISIAI	NA							MAINE	E											
Claiborne Parish		ilborne	to Hayn	esville.	Winds e	stima	SVR TSTM f wind damage ted at 75 MPH wer lines were		a t G	ride. None. Seleph Greenv	In Gr The d one ser ille, B	eenv lowne vice lower	ille d tre s the bank	, 80 ees i rough , Roc	trees mpede out t kwood	were d trav he sta , and	topp /el ai ite, i Patti	led on nd cut with p en wit	Tomi off arts hout	trees state- negan Road electric and of Farmington, power and/or orce winds were
Desoto Parish	23 0340CST A severe thur 55-60 MPH. Po Several mobil	wer li	nes and	trees we	re downe	d in	scattered areas.		r t a	out of northwine FA and 62	the so est as A at Au mph at	uthe the gust Bel	ast l stor a; a fast	Frida m wen nd 69 . Gu	y aft t by. mph sts o	ernoor Peak by the f 55 m	n, sh c gus c Coas nph w	ifting ts rep st Gua ere co	inte orte ord a mmon	o the north and d were 66 mph b t Jonesport; around the ta, a 60 by 120
Union and Moorehouse Parishes							SVR TSTMS se two parishes rous trees were		f T C	foot w The pe Christ Many b	arehous ak gust mas tre uilding	e, u t of e Fr s an	nder 52 m iday id mo	cons ph at afte tor v	truct Port rnoon ehicl	ion, i land i . Tre es the	fell topple ees a rough	victimed the lso fe out th	to City II on te sta	the high winds. /'s 60-foot n and damaged ate. Along the on and the othe
Calcasieu Parish	damage at Vir Charles, a to community of	nton an ornado Moss B	d Lake C develope luff. Th	harles,' d, strik e damage	To the n ing seve path wa	orthw ral h s 50-			a C d	nt Lub comple Ogunqu fencir	ec. Tw tely de it Beac	vo co estro ch lo ne re	ottag oyed ost 3 ost 3	es on and a 00 fe 1ess	Hunn nothe et of seas.	ewell r was beach	Beacl dama and	h in P ged by 6,000	hipp: the fee	sburg were pounding surf. t of protective raps were
West Carroll and East Carroll Parishes	23 0545CST				4 .		SVR TSTMS Heavy Rain	18 MARYLAN	10	and	D.C.	_								
	was accompani	led by ees, po	winds es wer line	timated a	at 60-70 utbuildi	MPH. ngs r	e parishes and Considerable esulted. Rains	Western	ļ	15 1 nw n	ressure	· mov	ed ou	ut of . In	0 the the C	O Ohio V atocti	0 /alle: in Mor	0 y, bri untain	ngin	now, Sleet g a mixture of Frederick Coun
Vermillion Parish		ado str Lanes,	In addit	ion, oth	er wind	damag	Tornado (F1) destroying e was reported mobile homes.			ty, 2 off 1 in a	to 4 i ate in	inche the of h	s of day. righwa	snow Haza	fell rdous	durin	ng the	e pre- r Alle	dawn gany	hours, taperin County resulte e fatality and
Rapides Parish	27 0430CST A severe thus	ndersto	rm struc	k Esler : ilding w	5 Regional as destr	. Airp	SVR TSTM High Wind ort during the windows were	Western		Rain Atlar Count	itic sta v. with	to tes.	. Sno ween	wfall 1 an	rang id 2 i	ed fro nches	om 2 over	to 4 1	ved inche jany	now into the mid- s over Garrett County and the
	blown out of First reports	18 aut	omobiles ated thi	andab swasa	rick fen tornado,	ce wa	s destroyed. later evidence in excess of	Chestertown		north 25 Stron	ern por	rtion s, as	s of	Wash ated	ingto O with	n, Fre 0 a col	ederi 3 d fro	ck and O	l Car W	roll Counties. ind m, caused local
17 MAINE								19 MASSACH	1115	FTT	ς.									
West Coastal York, Cumberland, Sagadahoc, Lincoln, & Knox Counties	50 mph were r	stall ins, h from ecorde 5 inc	igh wind Kittery d at Por hes were	s and rou to Rockla tland and commonpl	ugh seas and. Wi d Rockla: lace dur	ught to t nd gu nd re ing t	sts to 46 mph and spectively. Rain- he 48 hour deluge.	Western Portion		15- 16 Scatte	Evening Morning	wer (0 esulte	0 ed fro	0 m the		He	rong winds and avy Rains nds and heavy
	Some storm to 5.31 at Bonny that fell at broke the old the 25th and flooded with high tides wh estimated fro and coastal p at Goat Islan lighthouse to Many small bo ings, with se Many lobster	tals we Eagle Portla 24-ho 26th o severa ich we m 8 to ropert d Ligh wer an ats we everal traps	ere 6.20 , and 4. nd, 3.93 nd, 3.93 f 1877. l being re runnin 14 feet y damage t Station d there's re capsis being conwere was	inches a 13 at Bro inches o oer recon Many low washed ou ng 1 to a high als . Accord n, waves sow a r zed, swan mpletely ned ashor	at the S unswick. came in rd of 3. w-lying ut during feet al so cause ding to were brun mped or destroy re all a	anfor Of a 24- 76 in shore g Sat bove d som the G eakin nel t torn ed or	d Pumping Station, the 4.29 inches hour period which ches that came on roads were urday morning! Waves e beach erosion past Guard officer g halfway up the hrough the island. From their moorheavily damaged. the coast.	Statewide		Over cause warni and m were with high broug of th with	d considers of con	s of deral seve assal . In 5 in ons. tree , ga nd gi	ble l eral ble i n wes ches Pow e lin le fo usts	local eastein poo stern in P ver fa nbs as prce v	floodern co or dri MA, ittsf ailura nd ela winds hing	ding a buntie ainage the ra ield a es wer ectric resul 50 mph	s the s. Me area in ch nd up e con wire ted i	N.W.: Many manged to limmon a s. I	fi wi art o S. is oads d nun to h O inc s the n the e pow	avy rain/snow, ooding, gale node, gale node flood were flooded werous basement: eavy, wet snow hes in the wet snow eastern porticer losses 171 mph at
	Numerous powe on powerlines	r outa	ges were	reported	d due to	fa]1	en limbs and trees		- 1		Hill Ob: All day		atory	וחוי	mi ito 0	n. 0	?	0		oastal flooding
	east, making afternoon, re the fourth st concerned. H in the state we ments, topple phone service beach erosion totals from 2 at Bangor beitheir banks biceptible to finches which suffered the road washouts to dangerous landslides: a of French Streach	nt set evelopes low landfa aching orm the eavy rewith ord and us. The eavy to 4 and produced in the eat only looding rain to 4 and produced in the eavy rain to 4 and produced in the eavy look levels a slide eet in amage t	ed on the intensifing a month	front sed rapid if the Pereit Island and the strong we combinati trees any battere damage free common and the great and battere the	giving, south of fly as inobscot! I Saturda worst agrinds afin declaration of fid cut-oid was reported than the Eustistest amount of the fly in Bango The Pain early building of routh of the same of	t tra Bay mon s far fected loodeed falso rough strea bunts flood usua s and bunts iflood s strea corted usua s and bunts iflood s flood s floo	rning. This was as damage was devery community i roads or base-cetric and telesuffered more seas. Rainfall inches recorded ams overflowed, and places sus-1. Over mountain Portage reporting. The Bangor area ing as well as one were flooded to produced two d the full width and sand did	Areas, Cape Cod		south gusts astro along In Fa their barri the s sever of th sand.	eastern to 60 nomical south irhaven homes er at N horelin al auto	MA I to 7: ly h faci: and as r lew B: lew B: wind igh	with 5 mph igh 1 ng co Ware ising edfor No ir re hi s. / tides	south To the south South To the south To	heast ides, s, re l are some ers co s clo es we flyi tion ng th	to so two t sulted as fro resid overed sed as re rep ng deb of Rou e bays	outh wood the country of the country	vinds ree fe consid se Cod were road foot foot und da was c	ga move of ga et ab erabl to M evacu ways. wayes Prov mageo loseo	gh tides and lie winds of right over le force and ove already e flooding we Bedford. ated from The hurricane pounded incetown as a result by blowing e eroded up to

		i				_											NOVEMBER 1983
		OCAL	PATH	,¥TH	NO. PERS		MATED†	CHARACTER			OCAL	PATH	H C	NO.		TIMATED ¹ DAMAGE	
PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF (MILES)	WIDTH OF PATH (YARDS)	KILLED	INJURED	CROPS	OF STORM	PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH	WIDTH OF PATH (YARDS)	KILLED	INJURED	CROPS	CHARACTER OF STORM
20 MICHIGAN									MINNES	SOT	A						
Muskegon, Ottawa, and Kent Counties	Stro gan. shor	Wind be e from M	T front m hind fr ontague	ont exce	land fi eeded ! land at	0 6 Tom Lake 1 Tom Dake 1 Tom Dake 1 Tom Dake 1 Tom Dake 1	ong as far			oci di	curred in ed from ov	Apple \ er exe	alley o	n the o	evening ne stor	of Nove manda	c accident mber 27th. Eight number of accidents ng incidents.
	dama	ged 18 h ly scatt	omes in	a 4 blo	ock are	a of Jen	ison.		22 MISSISSIPP	Pl							
	1	•							Wayne County	Twas		homes w hunders	torm wi	ally de ids str	uck th	and and	Wind other was damaged lion community.
21 MINNESOTA South	22				0	0 0	0	Freezing Rain, Snow	Lexington Holmes County	Se		derstor in down	town Le	ington	. Wide	nsive r	Wind oof damage to ninor wind damage
	Mini road Mini	nesota du is from t nesota ar	ring th he Iowa d to th	e morni border e south	ng of I north em fri	November into por nges of M	22nd. ti ons o inneapo	into southern Glaze formed on f west central lis in southeast	Lowndes County Caledonia	Ei	2200CS ghteen be der was s	ef catt					Lightning they were huddled
	proj of : Jack acci	sed the c gress in snow and cson to C umulated theast ar	eath of the sou freezin ambridg in the d east	a man. thwest g preci e. By southwe central	By m section pitation evening st con Minne	id-aftern n of the on contin g 5 to 8 ner of th sota and	oon hea state a ued eas inches e state freezin	n Chippewa County vy snow was in nd a combination t of a line from of snow . Snow spread into g precipitation a rash of fender	Rolling Fork Sharkey County	A Fo de re ea	rk. The stroyed o ported ma	rnado t tornado ne hous jor str	ouched on moved to and douctural	down in northea smaged damage	st for seven	uthwest about 2 thers. tornado	Tornado (F2) part of Rolling miles as it Four businesses lifted in the cries were
	bend limi Com	iers but os and wi nunities	few ser res cau located	rious ac used sca I on rid	cident ttered ges in	s. Accum power ou	ulation tages i heast s	of ice on tree n the southeast. ections of the	LeFlore County	Th	1240CS understor th floodi	m rains				street	Flash Flood looding along reenwood.
East	23/24	i-	n of 1	iaht rno	0	0 0	0	Heavy Snow	Rankin County	A tì	ree miles	nado to east o	uched d f Pelah	own in atchie	north : Bay.	lankin Co he torna	Tornado (Fl) ounty about do moved northeast barn and injuring
	over dur beg The in sno	r to snow ing the m an turnia brunt of that city wfall in snow fel	r and ir corning g to sr the st r until Duluth in a 2	of Nove of Nove now in M torm hit 0200 CS reached 24-hour	l in in mber 2 linneap Dulut T on t I 20.7 period	tensity o 3rd. Fre olis and h at 0900 he mornin inches. breaking	ver eas ezing p St. Pau CST an g of th In Dulu the re	tation changed tern Minnesota recipiation 1 around 0600 CST. d did not let up e 24th. Total th, 16.6 inches cord 24-hour snow-	Leake County	22 A	ree peopl 1910CS woman and bile home	e. T three in Ofa	childre homa wa	0 n were s destr	4 injured	0 slight:	Wind Ly when their thunderstorm winds. dd wind damage.
	in Sti hig Nov	an area i llwater, her terra ember 23	rom jus Cambric in inla d winds	st north Ige, Hin and from s increa	of Fa ickley, i Lake ised to	ribault t Duluth a Superior. 20-40 mp	hrough nd nort By mi h causi	hes or more fell the Twin Cities, h along the d-afternoon on ng blowing and l and eastern	Alcorn County	C: or s:	the 22nd	ur incl l to abo	ut sunr	ise on	the 23	lcorn Co rd. Fla	Flash Flood unty from 8 PM sh flooding ix businesses
	Min Tha The Chi clo	nesota in nksgiving wind and sago Cour sed. Wei	dicated Day to Day to Heavy Oty arou	d visibi ravelers snow kn und 1710 elated t	llities were locked CST. raffic	near zer stranded out power Many sch accident	o. Tho on the around ools in s were	usands of state's highways. Branch in the state were numerous but few	Copiah County	H: t:	3 030000 Igh winds ractor and injuries	from a	r on In	tersta		overturn	ed an 18-wheel
	eas	n Prairie ices had fereo hea ember 24t t and nor	e and ar to use rt ation h the s th cent	nother i four wh icks que inow had iral sec	in Litc pel ve to ove taper tions	hfield. hicles du erexertio ed off to of the st	Many la ring th n. By flurri ate but	s occurred, one in w enforcement estorm. Nine 0400 CST on es in the northwinds continued the state.	Monroe County	W: d: ai A	rive-in th nother in 180 foot	a seventeater, central tower was Amory	overtur and no as down as the	ned a t rth Moi ed in a thunde:	n blew mobile mroe Co Amory. cstorms	down the home and inty. Funnel passed.	Funnel/Wind screen of a destroyed clouds were A large cement
South and East	27- 29				0	0 0	0	Blizzard, Heavy Snow	Lowndes County		3 223005 ne inch ha		reporte		0 miles e		
	of com	November Sination thern sec northeast ditions o	27th ar of free tions o winds evelope	nd slowl zing ra of the s increas ed in th	y spre in, sl tate a ed. T e sout	ad north. eet and s nd visibi hrough th hwest, fr	By mi now was lity be e eveni eezing	ota on the morning d-afternoon a falling in the gan to be reduced ng blizzard rain persisted in	Lawrence County	H		from a		thunder		produced	Wind severe roof off of its blocks.
	St. cen	Cloud. tral and nesota la	Snowfal southwe te in t	l by mi est Minn the even	dnight esota. ing an	totaled High wi d were fo	6 to 12 nds hit 11owed	lexandria and inches in south northeast by heavy snow	23 MISSOURI								
	hea cen thr	/y snow a tral Minr oughout 1	t 0400 esota e he morr	ČST. T early in ning of	hunder the m Novemb	accompan orning. er 29th a	ied the Heavy s nd into	tarted receiving heavy snow over now continued the afternoon	Barton	Go	1655CS lf ball beral. (size l Crop d	nail r	eporte	0 n d 5 n	orth of	Large Hail
	bef fel Arr	ore begin I through owhead Re Aitkin Co	ning to out sou gion. unty.	subsid thwest The gre Snowfal	le: Sn and ce atest I in e	owfall in ntral Min snowfall xcess of	excess nesota amount 16 inch	of 10 inches and into the was 18 inches es fell inland	Wright	Ha	173003 il 1 1/2 Mountai	2 to 2	inch o	0 liamet	0 er re	? ? ported	Large Hail
	from mea wes	m Lake Su sured bei t, south	perior ween Mi of Trac	and sno inneapol y. The	wfall is and re wer	amounts o Faribaul e few ser	f 14 in t and a ious ac	ches were lso in the south- cidents around ars and trucks	Barton Barton	3 Go	173703 lf ball 182003	size 1	nail 2	miles	sout	of La	Large Hail mar. Large Hail
	aba 40 sou to ope hea	ndoned. mph cause thwest wh cause blo rations i vy snow	Winds of blowing and the blowing are the bulleting are the bulleting are the bulleting bulleting.	of 30 mp ing and to 5 ft. id drift ie morni th shut	h with drifti drift ing sn ing of down m	gusts oc ng snow p s blocked ow that h November any water	casiona articul roads. ampered 29th. front i	lly higher than arly in the Winds continued Isnow removal High winds and ndustries during	LaClede	3 Go	il to 3/ 1822CS lf ball Lebabor	'4 incl T size l		eter a	t Gol	len Cit) ?	Large Hail
	for	ced to ar	ichor is	nside th	e harb	or on Lak	e Super	vessels were ior. Gusts in ip canal outward									

PLACE	TIME - LOCAL STANDARD LENGTH OF PATH (YAROS) WIDTH OF PATH (YAROS) KILLED OROPS RANDARD CROPS CR	PLACE	TIME - LOCAL STANDARD LENGTH OF PATH (TARDS) WILES) WILES WOOPERTY CROPS
MISSOU	RI .	NEBRAS	KA
Taney	18 0645CST 0 0 3 3 Large Hail and Damaging Wind		northeast of Haigler when snow sealed their home. Other heart attack deaths and deaths and injuries from auto accidents were
	Wind damage and 3/4 inch hail reported at Forsyth.		associated with the storm. A building roof collapsed at Grand Island from the snow.
Cape Girardeau	19 1645CST 0 0 2 0 Damaging Wind Thunderstorm winds estimated to 60 mph produced minor tree damage in northern Cape Girardeau County. A wind gust of of 52 mph was recorded at the airport to the south of Cape Girardeau at 1627.	26 NEVADA Las Vegas,	20 1230PST D 0 minor 0 Windstorm
Clinton	22 1418CST. 0 0 ? ? Severe Thunderstorm A severe thunderstorm with winds to 70 mph was reported 10 miles southwest of Plattsburg.	Clark County	Winds gusted to 70 mph in Las Vegas proper, resulting in trees being uprooted and windows knocked out. A Cooperative Observer in Henderson reported a 96 mph gust.
Chariton	22 1722CST 0 0 0 ? Large Hail Hail to golf ball size reported in	27 NEW HAM	DC LIDE
	Salisbury.	Coastal	104- 1200EST
24 MONTANA -	NONE REPORTED		OF Portsmouth received 5.23 inches of rain in about 48 hours, while at Concord, approximately 47 miles away, only 1.86 inches was recorded. The normal November rainfall is 4.90 inches. The coast was also ouffeted by gale force winds, 39 mph gusts at Portsmouth, rough surf and high tides running 2 feet above normal. Only minor coastal flooding was reported with many small boats being swamped
25 NEBRASKA			at their moorings by the torrential rains.
Phelps County	02 0600CST 0 0 2 3 Hail Half to one and one half inch hail caused minor crop damage along with minor damage to roofs and a few vehicles in and around Holdrege.	28 NEW JERSE	EYNONE REPORTED
Nuckolls County	02 0800CST 0 0 4 5 Hail Haif to one inch hail cut a swath across the county damaging unharvested fall crops. Crop damage was particularly heavy in the Mt. Clare area. Some windows were broken in homes and vehicles around Lawrence. The hail collected in drifts and a	29 NEW MEXIC	1
Panhandle, Southwest	grader was used to clear one state road. 08 Might 0 0 3 0 Heavy Snow	Chaves County	3 Morning 0 0 5 0 Flash Flood
and North Central Nebraska	O9 -Morning Areas of heavy snowfall were reported west of a line from Harting- ton to Beaver City. Some amounts included around 6 inches at Verdigre and Hartison and 4 inches at McCook, Ainsworth, Alliance and Chadron. Some limb and power line breakage was reported in the southwest.		Heavy rains during the evening of November 2 caused a flash flood along Eagle Draw near Artesia, flooding homes and washing out roads with an estimated damage amount of \$250,000.
Panhandle Nebraska	13 · Midday buffeted the Panhandle with a peak gust of 67MPH recorded at Scottsbluff around 1200CST. Minor damage to tree limbs and utility lines was reported.		Constal NONE REPORTED
Panhandle and North Central Nebraska	-22 -Morning	30 NEW YORK	
	Heavy snow fell in the northern Panhandle and north central. Heavlest snowfall was recorded in the northern Panhandle where Harrison reported 14 inches with 3 foot drifts and Chadron 9 inches. Other amounts included 5 inches at Ainsworth and 4 inches	St. Lawrence County	High winds during the 4th forced the shut down of the St. Lawrence Seaway. The windsforced 28 ships to go to anchor.
	at Scottsbluff and Valentine.	Delaware, Sullivan, Ulster, and Orange	9 0 0 ? C° Drought
Southeast Nebraska	26 Afternoon 0 0 6 0 Freezing Rain -27 -Morning Freezing rain caused extensive glazing and damage to utility lines and trees south of a line from Omaha to Red Cloud. Over 2000 families lost power. Conditions were particularly bad in Pawnee County where a 2 to 3 inch glaze caused snapped power poles, split cross arms and caused wires to drop to the ground. Numerous vehicle accidents reported.	Counties Orange and Ulster Counties	The Delaware River Basin Commission (DRBC) declared a drought warning for the Delaware River. The 4 counties in New York, N.Y. City and other parts of the basin were affected. This action was the result of a lack of rainfall in the storage areas of the Delaware. 11 1300EST 1 3 6 C° Wind/Rain
Entire State except Southeast corner	26 Late Evening 3 4 4 0 Blizzard and Heavy Snow Blizzard conditions and heavy snow impacted all of the state except the extreme southeast corner. Snowfall in excess of 10 inches was common in an area bounded on the west from Suchtsbluff to Valentine and on the east from Superior to Blair. Pockets in excess of 20 inches were reported in the Southern Panhandle, southwest, central and northeast Nebraska. Heavier snow included 27 inches at Sidney, 26 inches at Greeley, 22 inches at Grant, 21 inches at Oshkosh and 20 inches at Chappell and Laurel. During the height of the storm, winds from southwest through northeast Nebraska averaged 30 to 40MPH with gusts of 45 to 60MPH. Peak gusts of 62MPH were measured at Lexington and 59MPH at North Platte. Blowing and drifting snow reduced visibility to less than a sixteenth of a mile and the snow was pushed into 5 to 10 foot drifts. Thousands of Thanksgiving weekend travelers were stranded and took shelter in motels, public buildings and private homes as roads became impassable. Portions of I-80 along with other state roads were closed. One man was found dead of exposure 8 miles northeast of Oshkosh the morning of November 28th after he evidently fell from a tractor the afternoon of November 27th as he was caring for cattle. Two people died from carbon monoxide poisoning around Ainsworth when snow blocked their furnace vent. Four other people were also overcome by carbon monoxide 9 miles	Eastern Sections	Tornado like winds ripped through parts of Orange and Ulster Counties Friday. One woman was killed while trying to drive through a blinding downpour. Strong winds blew down a home in Pine Island and threw the home owner into a brick wall about 20 feet away. Further north and west the storm flipped over a mobile home and demolished it. The storm hit 3 small buildings and blew them into a 4th. Observers stated the building was lifted into the air and "just exploded". One observer said he saw clouds moving right along the ground. In Ulster County three homes were struck by lighting, resulting in small fires. No field investigation was done. 25 Day 0 ? ? O Snowstorm Parts of 2 post-Thanksgiving fronts converged over eastern New York. This resulted in snow up to 6-12 inches in some mountain areas, and rain mixed with snow to the south of Mohawk Valley.

											b					N	OVEMBER 1983
	3CAL	PATH ATH	Ni PE	D. OF RSON		ATED [†]				SCAL.	F + T	Ŧ		OF SONS	ESTIMA DAMA		
PLACE	DATE TIME - LOCAL STANDARD	LENGTH OF PATH (MILES) WIDTH OF PATH (YARDS)	KILLED	INJURED	PROPERTY	CROPS	CHARACTER OF STORM	PLACÉ	DATE	TIME - LOCAL STANDARD	LENGTH OF I	WIDTH OF PATH (YARDS)	KILLED	INJURED	PROPERTY	CROPS	CHARACTER OF STORM
30 NEW YORK	L	1-1-	J	1-		L		OKLAHO	Щ.	L	<u> </u>	L	لــــــــــــــــــــــــــــــــــــــ				
			٥	0	,	•	Dair	Shamrock,		0005CST			0	0	7	7	Hail
Addison & Presho Area, Steuben County	Heavy rains of About 200 res			to fa		ey sho	Rain ted power lines. 3 hours.	Creek County		il up to 1	inch	fell ne			-	•	natt (
Batavia, Genesee County; Warsaw and	21 Morning		0	0	3	0	Wind	Sapulpa, Creek County		early morning phtning ca		n oil t	0 ank to	0 burn	3 with	0 \$3,000	Lightning damages.
other parts of Wyoming County	Strong winds thousand home	broke tree l es were witho	imbs a ut pow	and p ver f	oower li for a fe 6	w hours	lore than a . Snow and Lightning	Lone Grove, Carter County		0047CST			0	0	?	?	Hail
Lancaster, Depew, Cheektowaga, Lackawanna, and other parts of Erie	30 A low pressur	re system cau e and Ontario	sed co	old a	nir to si	weep o	ver warm waters	Ardmore,		O140CST	olfbal	l size	fell. 0	0	4	0	Lightning
County; parts of Genesee, Niagara, Cayuga, Oswego, and	areas close thunder and The Buffalo	to the Lakes. Hightning. L Airport recor	The ancas ded 1	squa ter i	alls were received ches. A	accor 24 ind few to	mpanied by thes of snow. owns south of	Carter County		ghtning ca mages esti				partme	ent bu	ildin	g with
other Western and Central NY Counties	Buffalo decla accidents. I Roofs of a fe	lany area sch	ools a	and b	bus ines s	were no es were	merous vehicle forced to close.	Calvin, Hughes County	-	0150CST	olfball	. size h	0 mil fe	0	1	?	Reil
	A lightning b homes were w						nga. About 2000	Ada, Pontotoc County	19	early/mo	rning		0	0	4	0	Lightning
										-	used a	house					at \$43,000.
31 NORTH CA	ROLINA							Perkins, Payne County		1223CST e inch hai	il fell		0	U	?	?	Hail
Coastal Regions				1		0	Strong Winds	Ingalls, Payne County		1230CST 4 inch hai	ll fell	l.	0	0	?	?	Hail
	lines all	a strong of along the o	old coast	Eror , l∈	nt down eaving	ed tr 15,00	ees and power- homes without rally light,	Cushing, Payne County		1248CST			0	0	?	?	Rail
	limited to Hills, whe	the Wright re the repl	Bro ica	ther of a	r's Mem an airp	orial lane l	at Kill Devil nanger was	Oklahoma City,	'	4 inch hai 1300CST	II tell		O	0	?	î	Hail
	destroyed Ocracoke a	along with irstrip a (a Pi ampe	per r wa	Cub ai s dest	rplan roved	e. Near the leaving its	Oklahoma County		e inch hai	(1 fel1	la.	٠	•		·	
	5' in the	Pamlico Sou	ınd c.	apsi	ized a	36' t	wells reaching rawler resulting	Moore.		1303CST		••	0	0	7	?	Hail
	second man	was treate	ed fo	r hy	/pother	mia a	ounty man. A fter being reached 67 mph	Cleveland County	000	e inch ha:	il fell	ι.					
	at Cape Ha	tteras, 60	mph.	at A	Atlantí	c Bea	ch, and 50 mph ard Stations.	Midwest City,	22	1315-13	35CST		0	0	6	0	Hail, Wind
	ac ene oun	131und and	. 540		710 00a	30 00	ard Scattons.	Oklahoma County	th	il up to : ousand au timated a:	tos and	1 22 to:	25 th	ousand	house	winds es, Da	damaged 17-18 mages are
32 NORTH DA	KOTA	NO	NE REP	ORTE	ED.			Furcell, McClain County		1410CST		,	0	0	7	?	Hail
									7/	8 inch hai	11 fel1	2 mile	\$ 8 0ul	hof	Purcel	11.	
33 OH10		NOI	IE REP	ORTE	D			Lexington, Cleveland County	22	1415CST			0	0	7	7	Hail
								McCloud,	3/	4 inch hai	il fell	١.					
34. OKLAHOMA	4							Pottawatomie County		1435CST			0	0	?	?	Hail
Bethany, Oklahoma County	18 2020CST		0	0	7	?	Hail	Soper.	i	e inch hai			•		4	_	Manus to twee
Seward,	Marble to g	olfball size		fell.		?	Heil	Choctaw County	A		uched				east o		Tornado(F2) or causing
Logan County	Golf ball a	ise heil fell	3 mi	les :	south of	Sewar	ı.	Stroud,	wa	re set at			0	0	?	?	Hail
Langston, Logan County	18 2110CST		•	. 0	•		Wind	Lincoln County	Go	lfball si	me hail	fell I	0 mil	s nor	th of	Strou	1,
Stillwater,	Winds of 50 and caused 18 2130CST	to 60 mph up scattered roc	roote f dam	age,		ees, d	Whed fences,	Westport, Pawnee County		1510CST		fe11	0	0	?	?	Hail
Payne County		ze hail fell						Clayton, Pushmataha County		1520CST	oudii		0	0	7	?	Hail
Ninnekah, Grady County	18 2217CST	il fell.	0	(0 ?	7	Hail	merc	3/	4 inch sis	e hail	fell,					
Alex,	18 2225CST		0	(0 ?	?	Wind	Skiatook, Osage County	i	1531CST			0	0		?	Heil
Grady County	Winds of 55	mph occurred	with	no s	signific	ant da	mage.	Nashoba,		lfball min	se hail 2	_				200k.	Towned-/DA
Norman, Cleveland County	A tornado to	short narro	riefl	y in				Pushmataha County	A	tornado to veral hous	ouched			west o		ihoba (
Choctaw,		turning Ewo e . Damage was		ated			g several Wind	Farria, Atoka County		\$70,000. 1545CST			0	0	7	?	Hail
Oklahoma County	1	mph occurred						neona county	3/	4 inch #12	e hail	fell.					

																	r	IOVEMBER 1983
	OCAL	РАТН	H.			TIMA	ATED¹ AGE				CAL	РАТН	HT.	NO. PERS		ESTIMA DAM		
PLACE	DATE TIME - LOCAL STANDARD	LENGTH OF	WIDTH OF PATH (YARDS)	KILLED	INJURED	PROPERTY	CROPS	CHARACTER OF STORM	PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF 1	WIDTH OF PATH (YARDS)	KILLED	INJURED	PROPERTY	CROPS	CHARACTER OF STORM
OKLAH	OMA	•							35 OREGON			•						
Moyers, Pushmataha County	22 1548CST			0	o	?	?	Haíl	Clatsop County	03				0	0	0	0	High Winds
	Pingpong bal	l size ha	il fe	11.							of one As			eporte	d at	t Clats	op Spi	t. The roof blew
Darwin, Pushmataha County	22 1550CST 1 1/4 inch s	dan badi .	£_11 ·	0	0	? e n-	?	Hail	Southern Oregon & Willamette Valley	10	h winds a		d along	0 . tho c	1	4 t and u	0 n to 5	High Winds Omph in the
Albion, Pushmataha County	22 1600CST		100	0	3 6	LVa	?	Tornado(F3)	:	Will Blan powe over	amette Va co near f r lines, turned a	alley. Port Or restri meat r	Gusts ford. cted tr	up to Wind f affic.	105n 1 i pr	nph wen ped a g aused s	e reco rounde chool	rded at Cape d plane, downed closures, and ated in the tens
	A tornado se the northeas houses comple	t across	the to	own,	Four mo	bile	homes	and five	Coastal Strip &	of t	housands	(4).		0	n	n	0	High Winds
	suffered some one of the me	e type of	dama	ige. I	Chree pe	ople	were	injured in	Northern Oregon	Wind	ds of 40mp se caused				alor	ng the	-	were reported.
Coweta, Wagoner County	22 1615CST	•		0	0	?	?	Hail	Edgewater Terrace	17	ie Causeo	01113	111101 00	0	0	1	0	Lightning
nugonal county	Baseball siz	e hail fe	11 8 1	miles	east o	f Co	weta,		& North Bend	Ligh	ntning in	North	Bend kn	ocked	out	power	to son	e residences for a
Soper, Choctaw County	22 1630CST	ingpone h	all *	0 ize i	0 fell 6 m		? north	Hail nwest of Soper.		tree	nt while. and folk ing the s	lowed a	water	pipe i	nto	a hous	e in E	ightning struck a dgewater Terrace,
Crommell,	22 1640CST	Tughoug p		0		?		Hail, Wind,	North Coast	19	•			0	0	1	0	High Winds
Seminole County	Golfball siz				winds al	ong	with a	Funnel Cloud a large funnel		Spit	t was 65m or damage	ph. Th includ	në wind Jing a t	disrup telepho	ited one l	electr booth t	ical s hat wa	gust at Clatsop ervice and caused s blown over and
Summerfield, Wister and Poteau,				0	•		7	Tornado(F3)		smas 24	shed into	a park	ced pick	kup tru n	ick.	NO 111	ijuries ^	were reported. High Winds
Leflore County	intermitting Six people w	ly causin ere injur stimated	g dam ed at at \$7	Pote	on a pat eau, but 00 with	non \$500	rough ne seri	f Summerfield Wister and Poteau. Lously. Total of that occurring storm,	Western Oregan	Wind repo	rted nor	thwest amette	of Port Valley	tland, . Char	wit! les	h frequ ton boa	ient 50 it basi	o 75mph were mph gusts through- n at Coos Bay had were the only
Crouwell, Seminole County	22 1640CST Golfball size of Cromwell.		11 cov	0 verin	0 ig the g		? d 3 mi	Hail			orted dam							
Moyers, Pushmataha County	22 1645CST			0	0	?	?	Hail	36 PENNSYLV	ANI	IA, Eas	stern	- NONE	E REPO	RTED	1		
	One inch size	e hail fe	11.															
Sulphur, Murray County	22 1730CST			0	0	?	?	Hail	36 PENNSYLV	ANI	A, We	stern	- NONE	REPOR	RTED			
Reichert, Howe,	3/4 inch size		100	0	0 :	i	?	Tornado(F3)	37 RHODE ISL	A NI I	,							
Gilmore Leflore County	A tornado set at Howe and G homes were de Damage is est	t down at Gilmore as	Reich s it t	trave any h	and inte	rmi hea	st. Se	y caused damage veral Mobile	Statewide		Evening- Morning			0	0	0	0	Heavy Rain and Gusty Winds
Coweta, Wagoner County	22 1755CST A tornado tou	short na	arrow	0	0 1		? st of	Tornado(F0)			tered powersult of			id some	100	cal flo	oding	was reported as
Sulphur, Murray County	22 1800CST One inch hail	l fell at	the C	0 Chick	0 :		? fe Ref	Hail uge near Sulphur.	38 SOUTH CA	ROL	INA —	· · · ·	NONE	E REPOI	RTED	·		
. Ada, Pontotoc County	22 1810CST 7/8 inch size	e hail fel	ll jus	0 st no	0 i		? t sout	Hail h of Ada.	39 SOUTH DAK	(ΟΤΑ				-				
Shady Grove, Pittsburg County	22 1920CST	hail fel	l1 5 m	0 miles	0 1		? calest	Hail er.	Southeast Quarter of State		through			0	0	4	0	Blizzard
Eufaula, McIntosh County	22 1950CST	short r	narrow n brie	w O efly	0 () noi	? rth of	Tornado(F1)		stre thun The sout	ngth, cul der and l heaviest hsoutheas	orm tha Iminati ightni snowfa it to G	ng into ng duri 11 occu regory	a bli ng the rred s County	zzar eve outh , wi	nd and wening he neast fi ith the	was ac ours o rom Ma heavi	nued to gather companied by n the 27th. rshall County est snow falling n 4 to 18 inches.
Lawton, Comanche County	22 2003CST	e hail fe	ll wes	0 stan		? e ci	? ty of	Hail Lawton,		Stro impo with poor	ng winds ssible dr up to 8 conditio	up to iving foot d ins. wi	50 mph conditi rifts. th many	ons as Numer peopl	d ne num ous e fo	ear zero merous m acciden orced to	o visi roads nts we o stay	bilities and drifted shut re a result of the overnight in their
Sapulpa, Creek County	26 1850CST Lightning see damage.		an ag	0 partm	0 dent com	i plex	0 causi	Lightning		airp and many was to s	orts were businesse areas. allowed o trong win	close s were In Ven inly to	d into: closed million snowmo curred	midday on the , (Clay biles. in Rose	on e 28 y Co A ebud	the 28i 3th and bunty) o three i d (Todd	th. A again on the hour p Count	el all flights as lmost all schools on the 29th in 28th, traffic ower outage, due y) with knocked building under
			,					•			truction							

<u> </u>																	1/	IOVEMBER 1983
		CAL	РАТН	Ŧ	NO. (MATED [†]				CAL	РАТН	Ŧ		OF SONS	ESTIM DAM	ATED† AGE	
PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF P	WIDTH OF PATH (YARDS)	KILLED	INJURED	CROPS	CHARACTER OF STORM	PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF I	WIDTH OF PATH (YARDS)	KILLED	INJURED	PROPERTY	CROPS	CHARACTER OF STORM
40 TENNESSEE				,					TEXAS, N	Vor	thern	•				•		
Hohenwald, Lewis County	the sto	all thur night c orm was r	eausio not co	ng some nsider	e wind red ex	d damage ktensive	Lewis . Dar . howe	Wind County during mage from the ever, a car of its roof.	Bell County	which in t	h amounte	d to a crop d timbe	t least amage w	\$1.75 as not try co	5 mil t bel	lion. ieved	Occuri to be i stantia	erty damage, ring so late nigh, although al. High Winds
Greeneville, Greene County	did the cla	p Creek i similar	Eleme dams pped creat	entary age to off pa	School the e art of	ol. Les school. F the sc	it Marc In th hool r	High wind of damaged the ch, high winds nis incident, roof over some side the	Ellis County		s estimat truction 2300CST 2300CST	in Kil	leen.	destro 0 0	oyed 2 6	severa 6 6	?	dings under High Winds Tornado F2
Memphis, Shelby County	A the the air han	ong a pat e Memphie rport goi ngars at innea), c	couche th whi Inte mg no Memph damage	ed down lch beg ernation orthesenis Aer ed buil	n in s gen at onal / st, ds no (at	t the so Airport. amaged p t corner and ce	epots Lt orivate of Wi	Tornado (F1) as it skipped at corner of crossed the a plenes and inchester and the Federal the airport		airp plan stro and over torn	ort, dest les and tw yed four caused da turned wi ado lifte	roying to hang buildi mage t th six	5 airc ars. M ngs, di o numer person	raft a loving d exte ous of s inju	east east ensiv thers ured,	eavily into e dama . Thr	damagi town, i ge to i ee mobi eriousi	at the Ennis ing 6 more ithe tornado de- five buildings ile homes were y, before the e to its prop-
	in The	a wooded	d area occuring a	after urred v equipme	r cros withir ent, b	seing De n-about out the	mocrat 100 yz highes	ards of the NWS		erty sive Else elev	v. Severa water da where in vator valu	l roof mage o the co led at	s were occurred ounty, h \$250,00	lost, I. iigh w 10 near	winds r Ita	destro	re broi yed an groce	empty grain ry store at es were over-
6 south of Waverly Humphreys County	A s and Wav	small tor i trees a verly. S	nado and po Some v	ower po	ed a toles a	about 6 so repor	barn, miles ted in	Tornado (F1) , a workshop, south of n McEwen where d together with	Kaufman County	turr	ned injuri	ing two Doze heavil	and wi	despri arns jed by	ead d and d	lamage other o	from de ut bui ht-lin	owned trees ldings were
41 TEXAS, Nor	the	rn							Franklin County	Awni		downed s the	l, as we		tree		h roof:	e from high winds. s and windows High Winds
Tarrant County	19	0540CST-			0	0 ?	?	Hail	Trankfill County	A Da	ith two to	three	miles	wide	and t	en mil	es lon	g was cut through
			fel1					40CST, breaking		at 8	30 MPH dam	naged s 38 inct	everal es of r	homes	, mai	nly cor	ifined:	inds estimated to roofs and me as the line
	At 0		olf ba	11 to b	aseba1	1 size ha	- il fell	briefly near	Van Zandt County	23	0025CST		pi ca.	0	6	5	?	High Winds
Dallas County	19 Marb	0550CST 0655CST ole size h covering	- ail wa: the gr	s repor	Q ted at Grand	0 ? 0550CST Prairie.	? at Copp Durin	was reported. Hail ell, and at 0615 g the next half ail at various		the more An nume	trailer o were in individual	over an jured i l near orts of	nd crush in an ov Wills P Froof d	ned tw vertur Point n damage	o veh ned r measu	nicles mobile ured th	near Vi home n e wind	high winds turned an Zandt. Two ear Edgewood. s at 80 MPH, with well as tree
	poin		count	y, with	the 1			f ball size	Anderson County	23 High	0030CST		ned thre	0 e mob	2 ile l	5 nomes a	? nd ini	High Winds ured two people
Ellis County		0640CST inch hail othian.		igh win	-	0 ? sed minor		Hail, Winds ty damage at		in the	the Bethel trailer t	l Commu to reso	unity. cue a wo	A holoman w	e had ho wa	l to be is pinn	cut i	n the roof of er debris. Num- nes downed at
Johnson County	19	0655CST		uac man	0		? 41aa na	Hail	Smith County	23	0045CS1			0	0	5		High Winds
Eureka, Navarro County	19	0730CST		mas rep		0 4		rth of Grandview. Winds		NE d	of Lindale	e. Num at leas	nerous h	nomes	in t	ne area	susta	h winds 2 miles ined roof n Tyler by
		n thunders eral outbu						and damaged	Henderson County	23	0045CS	r			0	5		High Winds
Denton County		1345CST aderstorm v	winds,			ail to ha	1f-doll	Wind, Hail ar size, pro-	Erroctono County	dama	eral mobi age from h ted injuri 0025CS1	nigh wi ies.	es were inds in	the A	thens	and nu area.	Ther	homes sustained e were no re-
Eastern Half of	22-	Late PM-		y samag	e a: .		•	Tornado, High	Freestone County	A ma		e was c				n winds		High Winds irfield. There
North Texas	A sq thro	ough the F	, stre TW-DAL st, th	area w e thund	ith wi erston	nds of 40 ms intens	to 50 ified,	Winds al Texas, moved MPH. As the with winds of	Wood County		0100CS1 n winds up no repor	prooted			0 a ho	4 ouse ne	? ar Haw	High Winds kins. There
	The hardest hit was Ennis in Ellis County, where a to touched down at the airport destroying a hangar and si aircraft before it moved east into town. Six people it seriously.			and several	Titus County	mile	es long ne	umaged ear Mt. ne stre	. Pleasa tched e	ant. east a	Start long	ing 3 the no	miles rth si	High Winds d nearly 6 north of the de of I-30. The				
	Elsewhere, the high thunderstorm straight-line winds proved devastating on mobile homes. Scores of trailers were over-turned, injuring at least 22 people, 1 seriously.								Camp, Morris Counties		0100CST 0130CST	Γ	nea se	o O	0	ile num 5		Winds
	Tree line	s were up	rooted ands o	and bl	own in mers w	to homes, ere witho	traile ut elec	rs and power tricity for		burg	j in Camp	County	to Dai and bl	ingerf Iown i	ield nto l	in Mor	ris Co	age from Pitts- unty. Several umerous houses

PLACE	TIME - LOCAL STANDARD LENGTH OF PATH WIDTH OF PATH (YARDS) MILLED OROPS RILLED OROPS ROPERTY CROPS CRO	. PLACE	TIME - LOCAL STANDARD OF
TEXAS,	Northern	TEXAS,	Southern
Upshur County	23 0100CST 0 0 5 ? High Winds One mobile home was destroyed and two houses heavily damaged when large trees were blown onto the structures near Gilmer. A 28x50 foot building was destroyed and a 30x40 foot building		miles. As the track was across open terrain, only minor damage to trees and vegetation occurred. About 40 minutes after the first tornado disappeared, a second developed. It also tracked to the east-southeast, and, although larger than the first, had a much shorter path. It also caused only minor damage.
Cherokee County	heavily damaged from the thunderstorm winds. 23 0100CST 0 1 5 ? High Winds One person was injured by flying glass after thunderstorm winds downed trees and broke windows in the Tecula community, 5 miles NE of Jacksonville. Numerous houses, barns, and out buildings were heavily damaged in the area.	Cameron County Fort Bend and Wharton Counties	9 1500CST 0 0 0 0 Funnel A funnel was visible briefly near Arroyo City. 16 1900CST 0 0 5 5 Flash Flooding Isolated heavy thunderstorms over Wharton County produced
Gregg County	23 0115CST 0 3 5 ? Winds Thunderstorm winds overturned a mobile home and injured three people in the Easton Community.		general 3 to 4 inch rains, then drifted slowly eastward into Fort Bend County, producing similar rainfail. Local ponding was indicated between 1830CST and 1900CST but quickly turned into flash flooding within the following hour. Although numerous roads and low areas across the two-county area were under water
Marrion, Harrison Counties	23 O115CST- O O 5 ? High Winds O200CST	Matagorda County	from just after sunset to nearly midnight, no injuries were reported. Rainfall after 2100CST was generally light and made little contribution to the flooding already taking place. 17 0830CST 0 0 5 5 Flash Flooding
	High wind damage was scattered throughout the two counties. Near Jefferson, in Marion County, four mobile homes were heavily damaged, but there were no injuries. Numerous trees were uprooted, with one nearly destroying a small church. Five miles west of Marshall a large barn was destroyed and two others heavily damaged.	.m.agurua country	The heavy rains from the previous night redeveloped southward into Matagorda County near 0400CST. By 0700CST, isolated roads and low areas were reported to be collecting water, and by 0830CST, flash flooding was occurring. Numerous roads and low
Bowie County	others heavily damaged. 23 0145CST 0 4 5 ? High Winds	Brazos County	areas remained flooded through noon CST. 19 0910CST 1.1 100 0 5 6 4 Tornado (F2)
	Four persons were injured at New Boston when their mobile home was overturned. The high winds also uprooted numerous trees in the town and caused over \$10,000 damage to city property in the New Boston City Park.		Very heavy thunderstorms formed just after sunrise along a strong cold front moving eastward across central Texas. A tornado was produced by one of the storms near Allenfarm. It touched down on an old cotton plantation, injuring five persons and damaging and destroying several structures. Five homes, a
	Numerous reports of damage to mobile homes and trees blown onto houses were received from around the county.		small church and a barn were destoyed, while eight homes, a barn, and most vehicles on the farm were heavily damaged. At leas eleven other structures, including a cotton gin, received minor damage.
41 TEXAS, Sou			A family living in one of the destroyed homes may the tornado as it approached. All dropped immediately to the floor. The house was shaken violently as high winds from the storm struck first. After a few seconds, heavy rain hit the hone, covering all windows with mud. Almost without delay, the tornado struck, tearing the house apart and shredding the area with broken pieces of glass, rocks and wood. Three members of the family wereion the inside as the house collapsed. One was tossed on the ground outside and two were trapped in the collapsed structure. One reported seeing three trucks on the outside picked up and tossed in the air. Some of the injured reported hearing a sound like a "freight train" just before the tornado struck.
Triavia councy	4 1520CST 0 0 0 0 Furnel A furnel was visible just morth of the city of Austin for	Jefferson County	19 1310CST 0 0 4 0 Tstm winds
Bandera County	some five minutes. 5 0635CST 0 0 ? ? Flash Flood An upper level disturbance moving eastward out of West Texas produced areas of very heavy thunderstorm activity over much of the Texas Hill Country. In a repeating sequence, heavy		A line of thunderstorms continued along a strong cold front as it moved across the remainder of Southeast Texas early in the afternoon of the 19th. Strong gasts were produced by the storms with gusts to 60 mph recorded at the Jefferson County Airport. No major damage was indicated.
	thurderstorms moved again and again along the same track across central Bandera County. Within one hour, nearly four inches of rain fell in the Medina Lake area. Flash flooding developed about 0635CST around the lake, trapping vehicles in flooded roads and low areas. The water began to recede about 0900 GT with flooding ending near 1000CST. No injuries were reported.	South Texas	22 1310CST- 0 0 7 6 Wind Storm 0700CST A north-south aligned cold front entered the western edge of South Texas at Val Verde County near 1300CST, moving eastward through South Texas.during the following afternoon and evening. Strong, non-convective winds were observed by scattered damage
Jackson County	5 1200CST 0 0 0 0 Funnel A small funnel was reported near Vanderbilt.		reports over most of the area from Del Rio to Beaumont on the northern tier of South Texas cities southward to near a Laredo- Corpus Christi line. Northwest winds behind the front blew at 30 to 40 mph with isolated gusts as high as 70 mph. No major
Williamson County	5 1645CST 0 0 4 0 Hailstorm A strong thunderstorm moving to the east out of Travis County began to produce golfball-sized hail about 1645CST south of Georgetown, near Hutto. The hail was accompanied by wind gusts estimated at 40 mph. The hail occurrence was brief.	Orange County	damage was reported, but widespread minor damage occurred to small outbuildings, fences, roofs and vegetation. 23 0455CST .3 100 0 0 4 0 Tornado (FO) Strong thunderstorms continued along the cold front that
Cameron and Willacy Counties	6 0930CST 0 0 5 0 Tstm winds 0950CST 0 0 5 0 Tstm winds 1050CST 4 200 0 4 0 Tornado (FO) 1130CST 2 300 0 0 4 0 Tornado (FO) A series of short-lived severe storms struck the Rio Grande Valley between 0930CST and noon CST. The storms were moving to the east in association with a cold front oriented north-south		produced widespread gusts to 40 and 50 mph in the Orange area as it passed through just before 0500CST. A small tornade developed near the city of West Orange just before 0400CST. It touched down and lifted three times in rapid succession, then disappeared. Persons in the immediate area of the tornado reported hearing a sound like a "freight train." It sumpped two large oak trees in half, uprooted one tree and damaged several other trees.
	through extreme South Texas. Several reports of damaging winds were received from Cameron and Willacy Counties, with the gusts estimated at near 50 mph. In general, damage was minor and involved roof damage, glass breakage and tree limbs knocked damage.	Harris County	30 1345CST 0 0 0 0 Runnels Two small funnels were briefly visible near Hobby airport.
	down. One building under construction in Mercedes was heavily damaged. A small tormado was produced by the storms just northwest of the city of Brownsville near 1050CST. It was nearly 200 yards wide and tracked east—southeastward for an unusually long 4	Calhoun County	A funnel was visible briefly just north of Port Lavaca.

																			NOVEMBER 1983	
		CAL	PATH	Ę		OF SONS	ESTIM DAM	ATED ¹ AGE				CAL	РАТН	Ę	NO. PER	OF SONS		ATED [†]		
PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF 1	WIDTH OF PATH (YARDS)	KILLED	INJURED	PROPERTY	CROPS	CHARACTER OF STORM	PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF P	WIDTH OF PATH (YARDS)	KILLED	INJURED	PROPERTY	CROPS	CHARACTER OF STORM	
—— TEXAS,	Sou	thern								47 WISCONSIN)	• • • • • • • • • • • • • • • • • • • •		-		•				
Galveston County	nty 30 1725CST .3 40 0 0 0 0 Tornado (FO) 1725CST .3 40 0 0 0 Tornado (FO)								Extreme Northwest Wisconsin Counties		All Day 1 The Morni	Snow								
	tha	: Hitchcocl	k Polic	e Depar	Lef 1 y	on th	ie sout	h side	all tornadoes e of the town lfting. The		A snowstorm produced up to 8 inches of snow in the Lake Superior "Snowbelt" region of northwest Wisconsin.									
		nadoes: wei								Northwest Wisconsin Counties		Afternoor Early Mor		lours	0	0	?	0	Snow, Sleet, Freezing Rain Blowing Snow	
41 TEXAS, Western											sno Wis sno fro	first ma w, sleet consin wh w. A band m Pierce es were d	and fr nich ev l of sn county	eezing entuall ow from northw	rain i y chan u 8 to ard to	nto iged 18 to Dou	northw into a nches glas c	est 11 fell ounty.	•	
42 UIAN		:		NUNE	KEPUI	KIEU					pow bus	er outage inesses w	ere cl	y schoo osed.				orts o	'	
43 VERMONT										Northwest Half of State		Morning H Morning H		nto	0	0	?	0	Snow, Sleet, Freezing Rain Blowing Snow	
Entire State	lin e	v fell ove	6 inch	es. The	state e stoi	rm cai	used s	areas everal	Snowstorm receiving amounts auto mishaps re also downed.		The second major snowstorm of the season moved slowly through the state. Freezing rain and drizzle glazed many highways and caused numerous power outages in the northest before changing to snow. A band of snow from 8 to 13 inches was deposited northest of a line from Buffalo county to Vilas county.									
44 VIRGINIA							Lake Michigan Shoreline, Ozaukee County	27-Afternaan Into 0 0 ? 0 Wind 28 Morning Hours												
Northern Shenandoah Valley	ah 25 Early 0 0 0 0 Snow Low pressure moved northeastward along a cold front, intensifying as it moved into southern New England. This resulted in the first heavy snow of the season over sections of the Blue Ridge Mountain above the 2000-foot level. Snow began during the pre-dawn hours and ended around noontline. Elsewhere over the northern portion of the state, amounts on an inch or less were recorded.										whi sea	ong east ch produc wall as w boats fr	ed holvell as	es in t destro	he Por	•t Wa	shingt	on		
Southeastern								Wind, Rain	48 WYOMING											
	Mai Noi sev	mph. Vari inly. The rfolk wher veral park	ous da heavie e a co ed aut	mage rep st loss ndomini omobile:	ports occur um, und s at a	were rred i der co around	in com in the onstru d 5 AM	nnecti Ocean ction, . The	on with the winds, View section of toppled over onto structure, worth s. Elsewhere, a	Central Wyoming	The a f	8 Day 0 0 0 0 Heavy sn The first snowstorm of the season blanketed central Wyomi a foot of snow. Numerous minor traffic accidents were re from around the state with no serious road problems. 13 Morning 0 8 0 0 High win Winds gusting up to 65 mph blew over a school bus traveli Interstate 80 about 28 miles east of Rawlins.								
	tre	e fell th	rough nd dam	the att age and	ic of	a hor	me in '	Virgin	ia Beach, and occurred in the	East of Rawlins, Carbon County	Win									
										Central and Southwes	t 21-	22			0	0	?	0	Heavy snow	
45 WASHING	10	Morning	. 1		0	0			High Winds		con	ditions ı	ravaged includi	l the so ng Inte	uthwes rstate	t se 80	ction	of the	while blizzard state. Quite a Wyoming, were	
	off par	shore, but ts of west	the sern Wa	strong pashingto	ressu n. Th	re gr ere w	adient ere wi	cause despre	rd 300 miles d high winds in ad power outages	Southeast Wyoming	26	Day			0	0	?	0	Heavy snow	
	Map occ est the	le Valley upants sle imated at	a 75 f pt. Th \$40,00 Coothil	cot tal mere wer 00. Wind 11s. Pe	l tre e no s gen	e cra injur erall	shed i ies an y rang	nto a d dama ed fro	in the town of home while the age to the home was am 40 to 60 mph in the reported near		thr zer	ough sout	heast	Wyoming Numero	, brir us hig	iging shway	stron s, inc	g wind luding	of snow ripped s and 30 below Interstates 80	
Western Washington	24	0900 PST TO 1500 PST			0	1	6	0	High Winds	49 ALASKA, N	ort	nern								
	att	pressure ained a ce	ntral	pressur	e of	972 m	bs alo	ng the	ashington and Washington Coast.	Tanana Valley	02-				0	0	4	?	Ice Jam Flood	
	attained a central pressure of 972 mbs along the Washington Coast As the low moved inland high winds affected the western half of the state. Wind gusts reached 60 mph in Seattle and Olympia. A peak gust near 80 mph was recorded at Hoquiam. Winds in excess of 40 mph lasted up to 4 hours in some places. Damage was estimat at a few million dollars. Most damage was from trees falling into homes, shattered windows and downed power lines. Planes were damaged when a hangar blew down at Toledo airport. There was one known injury. A 78 year old woman was injured near Tacoma when a tree fell and struck her. She suffered a broken shoulder and concussion.								western half of and Olympia. A Minds in excess amage was estimated rees falling into Planes were tt. There was one ar Tacoma when a		The first half of October, 1983 in the central Tana warner than normal, and had well above normal precito the mild temperatures, the snowpack remained lig 6 inches.) The second half of the month turned sha had little snowfall. Rivers in the area were well mid October. The cold weather which followed was ince production. An ice jam began forming on approx on the lower reaches of Saicha Slough, a sidestream River, about 33 miles southeast of Fairbanks. A br							ecipitation. Due light (less than sharply cooler, and all above normal in se ideal for river proximately Oct. 31 team of the Tanana		
46 WEST VIRG	:INI	Δ									This stre	s, along etch of S arring at	with the alcha that	he ice : Slough : time or	jam, c on the early	ever	i flood ing of the mon	ing to Nov, ming (begin on the lower 2, with the crest of Nov. 3. The	
Ripley and Jackson County	ey and Jackson 20 Afternoon 0 0 3 0 High Wind								er outage, roof perty throughout F was blown from pof was over		Nov foll The ll. the	er level od damage 3. A s lowed on water le Due to area wer	is est The eries the mo vel re high g e unus but a	imated water : of secon rning of turned water round water eable for	to have recedendary f Nov. to nor ater 1 or sevenore s	e con d on crest 4 an mal v evels eral	the up 5 the at ts, sl: ad on t with co s, wel: days.	-6 feed ternood l lower the evo older to ls and This	8 homes had on and evening of than the first, ming of Nov. 8. reather on Nov. 10- septic systems in episode was ood which occurred	

		F - 1						. –		т		т —		_	— т			
PLACE	DATE TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	RDS)	NO. OF PERSONS	PROPERTY PWILES		CHARACTER OF STORM		PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)		NJURED SOUR	PROPERTY PWINES		CHARACTER OF STORM
—— ALASKA	A, Northern	1						 	52 VIRGIN ISL	.AN	DS			•				
Northwest Alaska	20 - 21		•	0 0	?		Blizzard and High Winds	s	St. Croix, St. John	4	0430- 2200AST			0	0	5	0	Heavy Rain, Flooding
!	a point between day. It remais 21. Cold air Siberia. Whose evening hours north winds, I were reported to 9PM Nov. 2: Seward Peninsu	ring the en Nuniva ined near and high le gales of Nov. plizzard at Gambe l. Blizza ula at Tigh the mo	early mak Islam ly stat pressu blew ov 19 thro conditi ell, on ard cond in City orning o	orning hod and St. ionary ar re remain er St. Maugh mid-cons, and St. Lawre itions we and Port f Nov. 21	ours of Mattle M	f Nov. hew Is dually trench Islan Nov. facto sland, ported nce fi	ne central 20, and reached sland late that y weakened on Nov. ned over eastern d from the late 22. Storm force ors to 35 below from 10AM Nov. 20 d on the western com the worning of e was reported.			Virg thro half and repo St. eros occu when	ugh most of St. C also over rted 8.44 Croix whe ion occur rred to s some sma	s area of the roix wi St. Jo inches re neas red in everal	early day. ith rep ohn, fu s. The rly fiv both S houses	on the The he orted orther most e inch t. Cro in Ti rflowe	e morni aviest 24-hou to the intensi es fei ix and de Vil ed in t	ing of t rain ur tot north se sho il in il St.	the 4 fell als of h, whe wers w two ho John, and Mo	th and continued over the eastern in the castern in
Northwest Coast	28			0 0	?	0	High Wind and Blizzard		53 PACIFIC —				NON	E REPO	RTED			
	Aleutians on the southern high as 55 mi of Nov. 28. falling on an were almost i occured at Ko	the night Bering So les an ho Nome had existing mpassible tzebue fo	t of Noves and wour hit gusts to, well e on the	v. 27-28. veakened eastern in to 40 mil consolidate 28th and cal hours	It t later. Norton es an ated s d 29th on th	then m on No n Sound hour. snowpa n. Bl ne aft	gh the eastern oved west through v. 28. Winds as d on the morning Due to the rain ck, roads at Nome izzard conditions ernoon of Nov. 28. the afternoon of											
Eastern Arctic Coast	30			0 0	?	0	Blizzard											
n Alásva s	night of Nov. over the Arct Barter Island the day Nov. the western A on the easter down to 1/8 m	29-30, : ic Coast and Olil 30. Loca retic Coa m Arctic	increasi . Blizz ktok, on al blizz ast, on	ing an al card cond the eas card cond the morn	ready itions tern A itions ing of	stron occu Arctic occu Nov.	trengthened on the g pressure gradient rred at Prudhoe Bay, Coast, for most of rred at Pt. Lay, on 30. Paak winds r, with visibility	\parallel										
49 ALASKA, Sc																		
	28-29 A strong storn high winds ar Peninsula on of rain fell combined with widespread structuroughout the wind gusts to	nd warm the 28th in the Ho snow mel ream floor area we	Gulf of emperation 29th omer are lt from oding an	ures to the to the up to a in 36 https://www.the.warm. d mudsliced or blood	the son 3 and 10 temper les. 1 ocked.	uthern d 1/2 The h rature Many n	n Kenai inches heavy rain es caused roads											
49 ALASKA, Sc	outheaster	n																
All Southeast Alaska	10		(0 0	4	0	High Winds	$\ $										
	bringing wind over 60 mph i	is to 80 in the po In the po	mph in s pulated chikan w	some of t areas. was worst	he oce Roof o	ean ch of mob	ighout the 10th lannels and to bile home that port. Juneauites											
Ketchikan	29			0 0	4		Local Flooding											
	Heavy rains of several area the city's co	basement	s and er	roding th	overt e cree	flow, ek ban	flooding ak threatening											
50 HAWAII —			- NONE RI	EPORTED														
51 PÜËRTÖ RÏ	ċο		- NONE R	EPORTED														
	•																	

	L	то	RNAD	OES		ŀ	HAILS	TORN	MS		WINDS	TORM	s		LIGH	TNING	<u> </u>	L	FLOC	DING		@HEAY	VY SNO	DWST(DRMS IDS	#	ICE ST	ORMS		¢	ALL	отн	ER
STATE	NUMBER	DAYS	DEATHS	INJURIES	† DAMAGE	DEATHS	NJURIES	PROP. 0	CHOPS	DEATHS	INJURIES	PROP. CT.	CROPS	DEATHS	INJURIES	PROP. GT	CROPS	DEATHS	NJURIES	PROP. G	CROPS BY	DEATHS	INJURIES	┝	CROPS	DEATHS	INJURIES	PROP. G	CROPS	DEATHS	NJURIES	ROP.	CHOPS
Alabama Arizona Arkansas California Colorado	11 4	5		22	П	<u>.</u>	_	?	?	1	.6	4	? 4		4	6			_	?		9	2 ?	5 4 6	?			4.4					
Connecticut Delaware Florida Georgia Idaho	3 3	1 1		2	6					1	6	3 5 4				4																	
Illinois Indiana Iowa Kansas Kentucky								3			5	7 5 4		í	2	5				2		1 3		6 5				6 6					
Louisiana Maine Maryland & DC Massachusetts Michigan	9	4		10	6							6 3 ?		1						6													
Minnesota Mississippi Missouri Montana Nebraska	2	2		3	5			3 4	4	1	11	5 3	2			4				4		3	4	4				6					
Nevada New Hampshire New Jersey New Mexico New York										1	3	? 5 6	co			3	į			5			?	6								3	3
North Carolina North Dakota Ohio Oklahoma Oregon	8	2		9	6			6	?	1	1	?	?			5 2	?															<u> </u>	
Pennsylvania Rhode Island South Carolina South Dakota Tennessee	2	1			5							4	?								!			4	L.								
Texas Utah Vermont Virginia Washington	7	5		11	6			4] 	1	24	5	6							5	5		?	?									
West Virginia Wisconsin Wyoming											8	3 ?												?									
Alaska Hawaii Pacific Puerto Rico Virgin Islands												4								5	?			?									

REFERENCE NOTES

Sto	orm damage categories are from	*	Miles instead of yards
1 t	to 9 as follows:	**	Yards instead of miles
1	Less than \$50	@	Includes heavy sleet storm
2	\$50 to \$500	#	Freezing drizzle and freezing
3	\$500 to \$5,000		rain, commonly known as glaze
4	\$5,000 to \$50,000	≠	Not received or incomplete
5	\$50,000 to \$500,000	0/c	Under Estimated Damage,
6	\$500,000 to \$5 Million		Property/Crops, indicates crop
7	\$5 Million to \$50 Million		damage amount is included
8	\$50 Million to \$500 Million		in the figure given
9	\$500 Million to \$5 Billion		<u>-</u>

<u>Definition of Fujita Tornado Scale (F scale)</u>

- (FO) Gale tornado (40-72 mph): Light damage Some damage to chimneys; break branches off trees; push over shallow-rooted trees; damage sign boards.
- (F1) Moderate tornado (73-112 mph): Moderate damage The lower limit (73 mph) is the beginning of hurricane wind speed; peel surface off roofs; mobile homes pushed off foundations or overturned; moving autos pushed off the roads.
- (F2) Significant tornado (113-157 mph): Considerable damage Roofs torn off frame houses; mobile homes demolished; boxcars pushed over; large trees snapped or uprooted; light-object missiles generated.
- (F3) Severe tornado (158-206 mph): Severe damage Roofs and some walls torn off well-constructed houses; trains overturned; most trees in forest uprooted; heavy cars lifted off ground and thrown.
- (F4) Devastating tornado (207-260 mph): Devastating damage Well-constructed houses leveled; structure with weak foundation blown off some distance; cars thrown and large missiles generated.
- (F5) Incredible tornado (261-318 mph): Incredible damage Strong frame houses lifted off foundations and carried considerable distance to disintegrate; automobile-sized missiles fly through the air in excess of 100 m; trees debarked; incredible phenomena will occur.
- (F6-F12) (319 mph to Mach 1, the speed of sound): The maximum wind speeds of tornadoes are not expected to reach the F6 wind speeds.

(F0+F1) Weak Tornado (F2+F3) Strong Tornado (F4+F5) Violent Tornado

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